

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

DECEMBER 15, 1958



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President

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Shenandoah, Iowa

"One of America's Foremost Nurseries"

Since 1875

AMERICAN NURSERYMAN

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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
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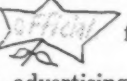
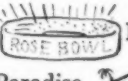


Forms for the February 1 issue will close Friday, January 9.




Mail copy to arrive at Chicago by these dates—no later!



HOW LUCIFER LOST HIS HALO




Once upon a pink cloud  there lived a harem-scarem angel known as Lucifer. In life, a nurseryman — Lucifer managed to get to Heaven only through a bookkeeping error. 

Once there, the older wiser angels shook their heads and handed him the job of "Making Heaven More Heavenly with Roses".

Thus Lucifer landscaped the Milky Way  with  Starfire. He trained a Climbing Tiffany  against the Pearly Gates. He made Angel Wings the official  flower for state occasions.  He set up a thriving nursery business — advertising ROSES — Direct from Paradise  via Howards of Hemet, California. All went well  and Lucifer prospered.

Then alas — he got mixed up with a Vampire  from the other side of the clouds. He took to flying around in shady places and wearing his halo at a rakish angle.  Worse — *he neglected to order his bareroot roses.* 

 Came the Day of Judgment. All the angels and archangels hovered about plunking their harps  impatiently. "Give us Angel Wings," they plunked. "Likewise Ivory Fashion, Pink Peace, Texan and all those other immortal creations."

Poor Lucifer wept with shame.  And it was a wet day in Terra Haute. From this time forward, Lucifer kept falling — falling — falling  into disrepute. And at last report, things were getting uncomfortably hot down there. 

MORAL: Why make it hot for yourself? Order bareroot roses now and stay on the right side of your customers. Prepaid freight and refrigerator storage to 16 cities throughout the U. S. Need we say more?

Yes---send for our current 1959 Price List.

"Seasoned Rosebushes" for the Wholesale Trade Exclusively.

HOWARDS of HEMET
"Seasoned Rosebushes"
HEMET • CALIFORNIA

AMERICAN NURSERYMAN

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Editorial

Merry Christmas

During the sharp and short readjustment or recession experienced by many industries in the early part of this year, little effect was apparent on nursery sales in most parts of the country, and it was felt more in the lesser season of autumn than in spring. However, the upsurge in business indices and industrial reports generally have brought a widespread feeling of optimism that is shared by nurserymen everywhere, and they view the prospects for spring hopefully.

So the year ends on a note which brings a feeling of gratitude on the part of everyone and especially those in this industry for the good fortune that minimizes reverses and continues this country on its forward way of an enlarged prosperity concurrent with its increasing population.

Sharing in the high tide of the trade's prosperity and setting new records again the past year, this magazine has special gratitude not only because of the business trend and general good feeling, but especially for the assistance and aid of new and old friends, subscribers and advertisers, to each and all of whom the staff offers its best wishes for a Merry Christmas!

SIGNS OF LIFE

When a customer drives into a retail nursery or garden center parking lot, there is seldom a salesman ready to meet him. If there were, it would denote a lack of current business which the proprietor would deplore. Since there may be a few moments, at least, before the customer receives any greeting or inquiry as to his needs, his attention may be diverted or he may become impatient. But if there are conspicuous signs to indicate current offerings or to point out where certain merchan-

dise may be inspected, the customer at any rate has his mind occupied for the few moments that he takes to study these signs. They are not only a sales medium, therefore, but also a means of gaining more interest from customers without the necessity of immediate personal attendance.

The outside and inside of supermarkets, grocery stores, hardware shops and other places today are so plastered with merchandise offerings or suggestions pertinent to the season that one wonders so little use of this type of selling is made, particularly on the outside, by garden centers and retail nurseries.

Signs add an appearance of life, of merchandise moving as well as to be moved. Alert retail nurserymen have made such effective use of signs, as reported in these pages from time to time, that the bareness of some retail outlets in this trade strikes one in decided contrast.

MANAGEMENT TOPICS

The small attendance at the recent management conference provided its members by the A. A. N. was probably due to a variety of reasons, but one was undoubtedly the unfamiliarity of most nurserymen with the meaning to them of the topics set forth. Nurserymen have thought of trees and shrubs in terms of production rather than as merchandise, and the various phases of business management have been forced upon their attention for practical consideration rather than as topics of discussion. Hence lectures on these topics at short courses and association meetings are less popular than those on purely cultural matters.

Yet, a retail nurseryman, though he thinks he is not interested in the topic of sales forecasting, actually performs just that when he orders stock for the coming selling season from his wholesalers. He is forced to estimate what he will sell of an item before he arrives at a basis for ordering it.

Similarly, marketing plans, labor training, public relations, accounting and finance are among other topics which the nurseryman may not think about under those terms, but to which he is forced to give his attention in the course of his own business. As the size of his operations increases and the various phases of his enterprise assume more importance, the nurseryman learns to recognize his problems by the general

The Mirror of the Trade

names which professors or other experts in business management practices have applied to them. If his enterprise becomes big enough, perhaps an accountant or a personnel director and other specially-trained men are added to the staff to give specific attention to these problems.

Those topics are just as important to the small nurseryman as to the large operator, since unsound financing, unwise marketing estimates or inefficient labor operation may ruin him all the sooner because of his smaller capital. So he may well take the opportunity of any spare time offered by the off season to give more attention to management topics, to learn to think in the general terms applied, to relate to his own business magazine articles on such topics and even to study books on the various subjects. The phases of business management mentioned, as well as others of the sort, are important to businessmen in all lines, more so than ever before in these days of intense competition between industries.

FIRE HAZARDS

Fire hazards increase greatly during the winter months in nursery buildings used for office, operating or storage purposes. Sometimes this situation is due to the type of material or equipment housed and sometimes to the diversity of heating devices employed, some of them of a temporary or makeshift character.

Since fire-fighting equipment is usually distantly located, blazes at the nursery are often the cause of severe damage and loss. On that account special care should be taken, not only in providing fire extinguishers, but also in seeing that they are maintained so as to be effective in an emergency. Different types of fire extinguishers are adapted for putting out different types of fires. In addition, handy sources of water and buckets of dirt or sand may prove useful.

Employees should be taught how to use extinguishers and what is their particular application. It should be remembered that water on an oil fire will only spread the flames, that a conductive material can relay severe shock from a fire originating in electrical apparatus and that smoldering fires take a large quantity of water to extinguish them completely.

An annual checkup, with a review of equipment and perhaps a fire drill, is not amiss at this time.

Nursery Centers in Europe

Part I. Italy, France and Belgium

By F. L. S. O'Rourke

Department of Horticulture, Michigan State University, East Lansing, Mich.

In Europe, as in America, nurseries are likely to be congregated in certain areas. European countries have their Shenandoahs and their Painesvilles also, in which many nurseries thrive side by side. During the spring and summer of 1958, the writer, accompanied by his wife and with a Volkswagen for transportation, visited several of these nursery centers.

It was a cold, rainy week in early April when we visited Pistoia, a small town about 15 miles north of Florence in north central Italy, where about 12 large and 60-odd small nurseries are located. The total area in nursery stock about Pistoia is said to exceed 1,500 acres. Under European conditions, where close planting with the use of hand labor is the rule, a large number of plants may be produced per acre, probably four to five times as many as from a similar area in America.

We were fortunate to be accompanied to Pistoia by Dr. Vito Breviglieri, horticulturist on the staff of the University of Florence and successor to Prof. A. Morettini, who is known internationally for his achievements in hybridizing and selecting many improved varieties of fruit that are now being propagated by the nurserymen of Pistoia.

Fruit Growing Important

Italy ranks high among the nations of the world as producer and exporter of quality fruit. Many types and kinds of fruit are produced,



Plant balled and strawed for shipment from nursery at Pistoia, Italy.

ranging from apples, pears and cherries in the north, through grapes, peaches, apricots and chestnuts in the central region, to oranges, lemons and tangerines in the south. In a nation of fruit growers, therefore, the nurserymen have been stimulated to propagate and produce high-quality nursery trees.

Many more varieties are grown there than in the United States. One large nursery lists 74 varieties of apple; another lists 61. Among these are a few varieties well known to Americans, such as Delicious, Jonathan, Gravenstein, and Stayman and Turley Winesap. The demand for diversified types and varieties of fruit

is a result of the many small farms, the various geographical regions, the local markets and the diversified tastes of the different European people.

The nurserymen of Pistoia not only produce a large variety of fruit, but offer these in many different shapes and sizes. Fruit trees in Europe are grown in varied ways, such as in espalier style, for planting against walls and on trellises; cordon, with horizontal limbs extending outward and joined with those of adjoining trees to make a fence; pyramid, with a relatively broad base near the ground and tapering in the vertical direction; goblet, with an open center and surrounding branches upright in cylinder formation, and others that combine two or more variations or features of those mentioned.

Special-Use Trees

The initial pruning and training of these espalier and other special-use trees is done in the nursery. The more elaborate the training, the longer the plant must remain in the nursery. It is not unusual, therefore, for a fruit tree to remain in the nursery for four or five years or until all the desired features of the training are well established. The rootstocks used for apples are generally those of vegetatively propagated clones, which dwarf the scion variety so that the mature tree is much smaller than one budded or grafted

[Continued on page 59]



Italian Nursery Scenes: Left, an Espalier Fruit Tree Wrapped for Shipment; Right, Stock Being Baled in a Baling Machine.

Dwarfing Adapts Snowball For Wider Landscape Use

By Henry Teuscher

Curator, Montreal Botanical Garden

The snowball bush, *Viburnum opulus roseum* or *V. opulus sterile*, has been in cultivation for a long time and is justly valued for its great hardiness, as well as for its beauty when it is in flower. However, it is a rather tall shrub, easily reaching a height of 12 feet.

The propagator at Montreal Botanical Garden, Mr. Johansson, felt that if this handsome shrub could be dwarfed to keep it from growing taller than four to six feet, its usefulness in landscape planting would be much increased. A suitable dwarfing stock was found to be the well-known *V. opulus nanum*, which does not grow much over three feet tall but flowers only rarely. He rooted cuttings of the latter under interrupted mist in July—they rooted surprisingly fast—and afterward whip grafted scions of *V. opulus roseum* onto them. This work was entirely successful. These plants now are 4 years old, are only two and a half feet high and flower freely. *V. opulus roseum* on its own roots would be well over twice that tall in four years. There should be many uses for these handsome low shrubs, one of which is tubbing them so that they can be more readily displayed when in flower.

Mr. Johansson concluded that the production was still too complicated to be economically feasible and commercially acceptable. To simplify it, he grafted the scions on cuttings of *V. opulus nanum* before the latter were rooted, inserting them for rooting into a bed of half perlite, half peat moss under interrupted mist. This experiment succeeded quite well. Rooting actually commenced two weeks after insertion in the bench, and at that time callusing of the union between stock and scion had commenced also. The whip graft was without interlocking tongue, but stock and scion were so tightly knit together at potting time that the raffia, used to tie the parts to each other, could be removed. No grafting wax was employed. The scion was inserted rather high up on a long cutting. This was done on purpose, so that the union would always remain well above the soil surface. It must be expected that, if the scion

is given a chance to make roots of its own, it will regain its original vigor and grow tall.

Over 90 per cent of the grafts were successful, and the few failures which were observed resulted from the use of a few cuttings of *V. opulus nanum* that were too thick and hard, in consequence of which they rooted more slowly than the others. The slower rooting delayed the union between graft and scion so much that the scion failed to take.

Lilac-Privet Graft

These few failures, however, were significant, we discovered, when the same procedure was tried with lilac on privet. This short cut in propagation, made possible by the mist method, seemed to be particularly promising in this case, because the grafting of lilac scions on short privet cuttings makes it possible to plant the latter so deeply that the scion can make roots and is then on its own feet. To root the privet cuttings first results in delay which may amount to a whole season. Unfortunately, the results were not promising enough to be commercially interesting. To be sure, it can be done,



Scions are grafted high to avoid own-root development after planting.



This 4-year-old *Viburnum opulus roseum*, grafted on a *V. opulus nanum* rootstock, flowers freely at a height of two and one-half feet. An own-root plant would be twice that tall at the same age.

but the percentage of "take" was much too low. The reason for the failure was that lilac scions usually are quite thick and privet cuttings of fitting thickness root too slowly to permit a quick union between stock and scion.

Apparently, a hormone which becomes available only after the cutting has formed roots is involved, and, if this needed hormone supply is delayed by as little as one week, it comes too late. It may be possible to supply this hormone artificially, though, as far as I know, its nature is not, as yet, perfectly clear. At any rate, it should not be long before this puzzle is solved by the fast-progressing plant hormone research which already has provided many valuable aids in plant propagation.

The cuttings of *V. opulus nanum* with their grafts of *V. opulus roseum* were potted after rooting—four to five weeks after insertion in the cutting bench—and were wintered in a coldframe. None were lost. In spring they were planted out in rows in the nursery.

TAX CHANGES

Nurserymen, with the help of an accountant or a tax consultant, may find tax advantages to be gained by a review of the technical amendments act of 1958. Among the provisions is one that permits small corporations (under 10 stockholders) to elect to be taxed as a partnership. Other provisions allow a 20 per cent of cost depreciation allowance the first year on equipment, increase the penalty ceiling for accumulated earnings and extend the net operating loss carry-over period.

Variable Fall Reports from Retailers

Landscape Work Increases—Retail Sales Lower—Spring Outlook Optimistic

Landscape work was the major factor in keeping many fall totals of this year equal to or slightly above last year's, according to reports given here as received from representative retail firms across the country. The midwest, led by Illinois, notes more satisfactory business than that reported generally in the east, although in the latter area late sales were closing some drops from 1957 records.

Responses to sales efforts have been variable, some reports showing greater customer selectivity and others indicating tendencies to expect lower prices. Retail store and sales lot business is somewhat less than in other seasons. Industrial and tax-supported landscaping have received greater attention, although in one area a note of caution is sounded that competitive bidding for such work may drive prices down to unprofitable levels.

Seeking increased fall sales, some firms are making special promotional efforts that are bringing desirable response. Other firms have striven to decrease overhead costs so as to improve fall profits and have been successful. Christmas sales are seen as more promising.

This year's fall weather was mainly satisfactory in developing growing plants, but the warm weather late in the season is believed to have deterred some home planting. Spring, it is widely felt, should bring out a heavy pent-up demand for planting material that can make 1959 an exceptionally good year for the trade. Frequently bookings for spring work exceed last year's at this time, it is noted.

Long Island Pickup after Drop

Last year's building slump affected sales on Long Island this past fall, declares L. S. MacRobbie, president, Oak Park Nurseries, Inc., East Patchogue, L. I. Other comments follow:

"Our total fall sales are off about 22 per cent from 1957 records. August and September sales were away off, but October and the first half of November saw some improvement over 1957, so we have begun to close the gap. Such a late pickup probably will not enable us to make a complete comeback.

"In landscape sales, the building slump of 1957 has caught up to us and we find homeowners reluctant to commit themselves to a contract.

Rather than showing a resistance to individual plant prices, many persons try to get a price reduction on the over-all job without any reduction in the scope of the work; in other words, they are shopping for a better deal. The trend away from the better class of residential landscaping and toward more tax-supported type of work continues.

"Retail garden shop sales are considerably off. Right after Labor day on Long Island, the enthusiasm for planting people usually can be expected to show, because their interests in boating, fishing, golf and other summer sports are waning, never evidenced itself.

"We are looking forward to a better outdoor Christmas decorating business than last year's, with several community projects signed up and a number of stores on the verge of placing orders."

Favorable Maryland Season

Little demand for small jobs is noted by Edward L. Stock, Jr., president, Stock Bros., Inc., Bethesda, Md. He expresses optimism and feels it has been a good season as he writes:

"Autumn is always a pleasant and

satisfying time of year for the small landscape contracting business we do. The weather is generally good, as was the case this year. It rained only at night and just enough to keep plants growing well—not quite enough at times for new seedlings, but enough to make conditions satisfactory.

"This was a peculiar fall for us. The early demand in September and October was normal and moderately heavy in all categories. In November, small job demand (\$100 to \$500) almost ceased to exist. We have planned jobs, quoted prices and have been extra-sollicitous, but have received no closings. As far as we know, the work has never been done by anyone. This same experience has been confirmed by a neighboring nurseryman who operates an enterprise similar to ours. Our larger jobs have been satisfactory and have kept us going at a rate equal to or better than last year's.

"Plant material from our own nurseries is moderately plentiful to supply the demand, and from outside sources material is readily available in most varieties. Large specimen plants are still scarce in the finer kinds and varieties.

"If, as we think, the November elections kept people from closing small orders, and the lack of building 12 to 18 months ago is just catching up to landscape nurserymen, next spring ought to see a tremendous boom in our particular field."

Connecticut Opinions "Mixed"

"Retailers in this area have mixed opinions on the state of this fall's business," states Wellington Kennedy, Kennedy Nursery, Greenwich, Conn., and he adds: "In general, it seems that the garden center business is considerably off, while landscaping has held up.

"The difference we note is that we are not being rushed off our feet; that we can give fast service, and that we wish that we were being pushed a little more.

"Business in general seems to be picking up and all seem optimistic for spring."

Promotion Aids in Virginia

Wendall L. Winn, Winn Nursery, Inc., Norfolk, Va., states that the volume of sales is holding steady and cites effective methods of promotion in the following report:

"Our firm began its fall business

SIGN DRAWS TRADE



Reproduced above is a photograph of a new nursery sign installed by Howard & Smith, Inc., Montebello, Calif. Made of heavy aluminum, this unit has a lifetime guarantee of its construction. The letters, also made of aluminum, can be changed easily, and the sign is available in a variety of color combinations, with all the painted surfaces of baked enamel. It is produced by the Berloc Mfg. Co., Hawthorne, Calif.

approximately September 1. This is slightly earlier than usual, but favorable weather, including ample rainfall, prevailed. Landscape contracting work was steady during September, October and November, with a slight increase in volume over that of 1957. Autumn business in the tide-water area has equaled in proportion the business volume of the spring, 1958. Although January and February were slow months, because of exceptionally cold weather, we were able to maintain our volume by increase in March, April and May sales and contracts.

"Building activity began to increase considerably in early summer, particularly in the home-building field, thus accounting for increased fall sales. Industrial and commercial landscape contracts compare in volume to that in 1956 and 1957.

"A gardening section in the Norfolk newspapers was inaugurated in October, and we find that advertising in this section has increased our retail sales volume. We find that our participation in the Home Builders' Association and the Builders' and Contractors' Exchange is an important factor in contacting the members of the contracting industry.

"Labor conditions are better, and this factor expedites the execution of our landscape contracts.

"Use of the new A. A. N. film on landscaping at meetings with garden clubs has been received favorably.

"Attractive signs have been placed at all nursery locations, trucks have been painted and the nursery and display grounds are kept in a neat and orderly fashion, and we feel that this work is an important factor in our public relations."

Pennsylvania Sales Uneven

John M. Eisler, Eisler Nurseries, Butler, Pa., reports a drop-off in sales at Pittsburgh, except in public and industrial building landscaping, and a move toward firmer prices this fall, as follows.

"A review of business conditions in western Pennsylvania shows that the sales lot business was off approximately 25 per cent this fall in the Pittsburgh area. Some dealers have reported a little more and some a little less reduction. Our own sales garden near Butler showed an increase in total sales of approximately 10 per cent. Fall sales generally are much less than spring sales here; gardeners here have to be educated to accept the fact that fall planting is just as satisfactory as spring planting except for a few items.

"The landscape contracting business has been good in this area, large-

ly because of the construction of new schools and other public buildings. Nearly all new factories and research laboratories in this area have required considerable landscape work.

"Prices generally were soft for landscape construction during the spring and summer, due to competition, but they have now stiffened considerably, and jobs are being bid on again at a price at which one can at least break even."

Off 10 Per Cent at Pittsburgh

Fall factors at Pittsburgh, Pa., are pointed out by Stanley W. Leonard, Leonard & Leonard, as follows:

"Although fall, 1958, business will be about 10 per cent below that of 1957, we have been busy. Buyers who should have started planting this fall will want to be waited on in spring, 1959, when we are knee deep in work. Department stores some years ago started to drum up Christmas business the day after Thanksgiving, whereas now they start two days after Labor day! We cut grass November 20; red geraniums were still good and sassy November 22, but that night the mercury went to 30 degrees, so they are through. A warm fall is not good for selling nursery stock.

"October 20 I was in Painesville, O., purchasing nursery stock, and one of my nurseryman friends was singing the blues; the next day when I picked up my stock he was happy because he had received a couple of good orders from Michigan.

"Six years ago, *Euonymus alatus compactus* was in short supply; three years ago *Pieris japonica* was the short item. Today the short items seem to be *Ilex opaca*, especially the newer varieties, and *Taxus densiformis*."

Kentucky Volume Up

Profits are not keeping pace with increasing fall volume of sales, states Louis E. Hillenmeyer, Hillenmeyer Nurseries, Lexington, Ky. He writes:

"We are having an unusually good fall season, plus weather conditions that are better than average. If business continues and weather permits, we will have one of the largest volumes in our history. Central Kentucky has experienced much growth the past few years, and this no doubt has contributed to our increases.

"Profits have not kept pace with our volume and we are not too pleased with this situation. Material, truck and labor costs have increased faster than the price of nursery stock, and we think this accounts for our closer margin.

"Our fall business is now about 40
(Continued on page 96)



Hybrid Elm, Improved Coolshade Primus

NEW HYBRID ELM

Sarcoxis Nurseries, Sarcoxie, Mo., recently received plant patent No. 1747 for the firm's new improved elm, Coolshade Primus. An improvement of a plant the firm has offered as Coolshade since 1946, it is the first hybrid elm ever to receive a United States patent.

Some of the favorable features claimed for this elm are its uniformity and rapidity of growth, its heavy branching habit and its tendency to grow straight and produce a central leader to the tip rather than form crotches, a common tendency of most hybrids. Because of this last-named feature, few trees have to be culled; practically all are salable, it is claimed. A tough tree, resistant to breakage and strain of ice and wind, it is densely foliated with leaves of a lively green and is said to have a compact top, rather than a tall whipping one that is open and irregular.

COLORADO REGULATION

Individuals, firms or associations which sell nursery stock in the state of Colorado should be aware of the fact that Colorado has a law concerning kinds, grades, size and variety of nursery stock. It is unlawful to sell, deliver or transport to any purchaser of nursery stock in the state until such stock is properly graded and labeled as to name variety, grade and size.

JOINING the sales staff of Kankakee Nursery Co., Kankakee, Ill., is C. E. "Chuck" Marson, formerly associated with C. R. Burr & Co., Inc., Manchester, Conn.

Wood Preservatives Offer Savings for Nurserymen

By Gordon Sears

Wood authorities estimate that termites and fungi cause a loss of \$40,000,000 annually in the United States through wood deterioration. Part of this loss may be sustained by nurserymen, who use considerable quantities of wood for canning shed construction, shade houses, flats, stakes and bed sidings. Unprotected wood rots rapidly under the moist conditions that prevail in the nursery business. However, this early decay and the resulting high economic loss can be prevented.

When wood must be used under conditions favorable to the growth of fungi or insects, properly applied wood preservatives will make it last longer. As long as enough preservative is present in the wood, insects or fungi do not damage it. When too little preservative is present or when there are breaks in the protective zone, damage is possible. Thus, the kind of preservative, its amount and its distribution in the wood are all important.

When wood is to be in contact with the ground or much moisture, it should be treated properly with a permanent-type preservative, such as penta. Because of its cleanliness, penta is especially popular when treated wood is to be used in public places. However, there is the possibility of plant damage if plants come in contact with freshly treated wood.

Damage can be guarded against by keeping plants away from treated wood for the first season.

It is not enough to specify a good preservative. Even the best preservatives fail to give good protection when inadequately applied. The method of treatment is as important as the preservative itself.

Two principal methods of treating wood are pressure and hot and cold submersions. In the former process, the wood is enclosed in a vessel or cylinder, and the preservative is forced into the wood by pressure. The hot and cold submersion method consists of submerging the wood in hot preservative and then immersing it in a cold preservative. Wood preserving experts feel that these two methods are best for treating wood that will be in contact with the ground, including poles which form the foundations for the pole buildings being widely used by nurserymen for packing sheds, offices, utility buildings, carports and propagating houses.

Window sashes are commonly immersed for three minutes, and this method is also useful for treating window frames, window screen or door screen frames and other millwork. Small lumber not used in contact with the ground can be treated adequately by flooding a packaged preservative into the wood with a



Commercially treated with preservative, 1x6-inch southern yellow pine lumber is used to contain the azalea beds in this lath area at Casadaban Nurseries, Abita Springs, La.

paint brush. A solution of penta and a water-repellent material will make the wood paintable earlier.

Gloves and aprons should be worn during treatment and handling of preservatives and freshly treated material.

Advantages gained from treated lumber depend upon the preservative agent employed and the method used for impregnating the wood. Service records now on file with the United States forest products laboratory show that certain types of treated lumber will last from three to five times longer than untreated lumber. In decay conditions that cause an untreated piece of wood to rot out in four years, treated wood members will last from 12 to 20 years, making possible a real saving for nurserymen.



Wood treated with preservative to prevent rotting due to fungi and termites is especially adapted for use in many nursery structures. As shown at left, for instance, it was used to construct the raised beds in a polyethylene-covered propagating house at Forrest Keeling Nursery, Elsberry, Mo. Center: A shade area at the Forrest Keeling Nursery utilizes treated poles and retaining boards. Right: Sand boxes at the Tom Dodd Nurseries, Semmes, Ala., are built with 1x6-inch treated boards.

Tips for Better Landscapes

Small Maples in the Landscape: Part II

By Clarence E. Lewis

Department of Horticulture, Michigan State University, East Lansing, Mich.

One of the best small maples for a variety of places is the hedge maple (*Acer campestre*). As the common name implies, it has been successfully used as a hedge, more generally in England than in the United States. There are, however, many other uses for this clean small tree.

Acer campestre came originally from Europe and western Asia and was introduced into this country during colonial times, probably about the middle of the 18th century or soon after.

A record of the largest *A. campestre* specimen that I know of is kept at the Parrish museum, Southampton, L. I., N. Y. This tree had a trunk circumference of eight feet eight inches, taken one foot above the ground. A hedge in the central experimental farm of Ottawa, Canada, was planted in 1895 and in 1929 was four feet two inches high, with a basal width of eight feet. The hedge was removed in 1930. The original plants were killed to the ground, but many branches soon appeared from the base to create a reasonably good, dense hedge. A specimen has been growing in the Secrest Arboretum, Ohio agricultural experiment station, Wooster, for over 30 years.

Three old specimens on the campus of Michigan State University, East Lansing, have reached a height



Illustration A—*Acer campestre* provides a density and form that are appropriate for many landscape situations.



Illustration B—The wings of the hedge maple seeds are horizontal and spreading, different from seeds of other small maples.

of 35 feet in one case and 25 feet in the other two. They were planted before the turn of the century, when Dr. Liberty Hyde Bailey was a member of the faculty, and are about 70 years old. The trunk diameter of the largest, taken one foot above the ground, is 30 inches.

The tallest has a 3-foot trunk with a diameter of 24 inches, taken 30 inches from the ground. They have been crowded slightly by larger trees, but this has not seriously affected the density and round-headed form. Some of the branch tips nearly sweep the ground. The bark has become coarse and dark gray.

The opposite leaves are different from those of most other maples, since the tips of the lobes are blunt or rounded, as may be seen in illustration C. This is the only small maple with 3 to 5-lobed leaves that shows this characteristic. Some of the leaves have narrower lobes and more distinct basal lobes than those shown in illustration C. A good clear yellow fall color adds to the hedge maple's attractiveness.

Trees with leaves of five definite narrow lobes often show the tendency to develop a corklike growth on the young stems. It is so dominant that it is hard to find the normal bark, which is often orange-brown on such specimens. The middle lobe sometimes divides into three.

The petiole is about as long as the



Left, illustration C, *Acer campestre* leaves vary, but the leaves always end in a blunt or rounded tip; right, illustration D, *Acer ginnala* provides enough body and size to become well adapted to many large buildings.



Illustration E—The end or middle lobes of Amur maple leaves are very long and slightly lobed.

length of the leaf blade and longer only when it is necessary for the leaf to obtain more sunlight. The petiole has a milky sap similar to that of the Norway maple. The flowers are unimportant except to the botanist, but the winged seeds are different from many maple seeds because the wings spread horizontally, as is shown in illustration B. The tips of the end buds, and often the side ones, have distinct gray hairs.

The tree is commonly seen as it is in illustration A—a short-trunked or multiple-stemmed tree with a round head. Such hedge maples have good density as long as there is a reasonable amount of available sunlight. *Acer campestre* can be trained into a single-stemmed standard with the lower branches three, four or five feet from the ground or even higher. This must all be done while the tree is young, and then it is a gradual operation. Care must be taken not to girdle the tree by making close broad cuts in removing the side stems.

Only One Variety in Trade

About the only variety that seems to be listed by the nursery trade is *compactum*, although Dr. Rehder mentions eight, including *tauricum* (also known as *lobatum*). On this variety, the leaf lobes are lobed, and I suspect it is the one whose young branches are often corky. It is generally sold as just *Acer campestre*, the nurseryman not realizing it to be a variation.

Other varieties listed by Dr. Rehder are *pulverulentum*, which has white speckled leaves; *albovariegatum*, with large white blotches; *postelense*, which is golden white young; *schwerini*, having purple leaves during the spring, and *austri-*



Illustration F—*Acer tataricum* appears to have a somewhat stubby leaf because of the broad middle lobe.

cum (also listed as *acutilobum*), with acute, nearly entire lobes. A dwarf compact form (*compactum nanum*), with no authority, is also recorded.

Acer campestre is adaptable to use as a street tree. Where the street is narrow, it is a welcome relief from the avenue crowded with broad Norway maples or plane trees. The hedge maple can also be used on the small lot or at the corners of large buildings, as shown in illustration A. It conforms well to treatment as a boxlike tree, for there is a neatness to its appearance, whether it be pruned or allowed to grow in its natural form.

Amur Maple

The amur maple (*Acer ginnala*) is probably the most popular small maple, other than the Japanese and its varieties. At least, it can be found readily in most reputable nurseries.



Illustration H — The Tatarian maple shown produces an abundance of fruit, as does its close relative, *Acer ginnala*.



Illustration G—There is some variance that can be observed in the leaves of the Tatarian maple.

The common conception is that this plant grows as a large shrub of some 20 to 25 feet, but it can be trained to a single stem, when it may reach a height of 35 feet. Under the latter conditions it becomes useful as a small street tree. When grown as a big shrub it can be used effectively about large buildings, as seen in illustration D.

The leaves are known for their long end lobes (illustration E). The reddish to bronze spring color soon turns to a healthy clean green, and in the fall an unrivaled red to scarlet causes everyone to admire it. Unfortunately, the fall color is not long lasting, as the leaves that hold this splendor drop in a few days.

The Amur maple was discovered by Maximowicz in the Amur valley of eastern Siberia about the middle of the 19th century and was introduced into cultivation a few years later. It is about the hardiest of the small maples, having withstood temperatures to 30 degrees below zero and lower.

A cultivar by the name of Durand Dwarf is described by Bernard Harkness, of the Rochester, N. Y., park department. It originated as a bud mutation in Durand-Eastman park, Rochester, a few hundred yards from Lake Ontario. There are two varieties, but only in botanical gardens. One is *semenovi*, which has smaller leaves that often tend to show five lobes instead of three. It is tenderer than the species. The other is *yezense*, with which I am not familiar.

Fruits Are Red Also

The red color is not associated only with the foliage. The keyed fruits are also red in the summer, contrasting nicely with the clean

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At Colonial Williamsburg

Potted Boxwoods Score as Souvenirs

Rapidly taking a place among the most popular of the many souvenirs offered to visitors at Williamsburg, Va., are small boxwood plants, propagated from bushes that date back to colonial days and potted in aluminum foil containers. The plants are produced at Berkeley, a restored historic plantation located between Williamsburg and Richmond, by Malcolm Jamieson, and are displayed and sold at the Craft House, operated by Colonial Williamsburg, Inc.

Actually, Mr. Jamieson entered the propagating field by accident. Although Berkeley, ancestral home of a signer of the Declaration of Independence and of two United States presidents, had been in his family for about 50 years, it was not until the late 30's that he decided to restore it to its colonial condition. In the course of this restoration, he found that he would have to replace a number of boxwoods that had been transplanted during the Civil War, when Berkeley was occupied by General McClellan's army. In order to replace the missing boxwoods, he set out 500 bushes to mature. Twelve years later, in 1947, a visitor saw the bushes and offered to buy the 490 that had survived—at \$10 each. This gave Mr. Jamieson the idea of going into the business of producing boxwoods.

At first he propagated only a few bushes, offering them to tourists who visited Berkeley. Word-of-mouth advertising resulted in a small but



Production of rooted cuttings from these venerable boxwoods at Berkeley plantation, near Williamsburg, Va., provides a popular souvenir item for Williamsburg visitors and a growing business for Berkeley's owner, Malcolm Jamieson.

growing business. Little by little, Mr. Jamieson expanded the planting operation. He now has an estimated 100,000 bushes under cultivation.

In Aluminum Foil Pots

In the beginning, he set the bushes in aluminum foil packages designed for use in freezers, but these were not entirely satisfactory.

He consulted officials of the Reynolds Metals Co., at nearby Richmond, who suggested that he use Alumipots, aluminum foil pots especially designed by the company for flowers and plants. The new type of pot, clean and attractive in ap-

pearance, proved highly popular with tourists because of its light weight and unbreakable quality, which make the purchase convenient to handle. Mr. Jamieson attributes his gratifying sales in great part to the self-selling characteristics of the containers, which are also practical because they retain moisture in transit.

To propagate the boxwood, Mr. Jamieson takes 5 to 6-inch cuttings from a bush. These are inserted to a depth of about two and a half or three inches in sandy soil under shade. Sprinklers keep the cuttings

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A cylindrical digger is used to lift these 3-year-old boxwood plants for potting. There are now an estimated 100,000 bushes under cultivation at Berkeley.



Mr. Jamieson watches as a worker transfers a boxwood plant to one of the Reynolds Alumipots in which the souvenirs are displayed and sold.



Harold Sparks, merchandising director, Colonial Williamsburg, Inc., examines one of the boxwoods displayed by Mr. Jamieson at the Craft House.

Planning a Nursery

Part II. Preparation of the Land

By James Wells

Concurrently with the building of the fixed facilities, greenhouses, frames and entrance road, went the planning of our land for maximum efficiency in use. The area dealt with comprised about 20 acres in all, about half of which was relatively low-lying land. It was reasonably level, but with a slight slope to the south, and about 10 acres were gently rolling land leading to a high point where the soil conditions were rather poor and sandy. Upon examination we found that we had almost any type of soil condition that one might mention. There was a small wooded area right at the back of the 20-acre rectangle with a sharp drop down to a stream running through a swamp, while the front part of the land proved to be rather heavy and poorly drained. A large portion of this level area also was covered with a wild tangle of self-sown trees, tulip poplars, oak and locust growing from a tangled mass of *Rosa multiflora*. A small section had been cultivated with corn about three years previously; since then nothing had been done to any part of the land.

Layout of Nursery

The first task was to mark out the site of the entrance road and the areas which were to be used for the frame yard, the greenhouse and the potting shed. Once this was done, we brought in a heavy bulldozer and moved the topsoil from this area. This topsoil still remains on the nursery as a substantial pile from which we continue to draw as the need arises and from which we will be able to maintain our production of potting soil for some years to come.

The removal of the topsoil from the construction area in this way was an excellent idea.

The same bulldozer was used to attack the jungle of *Rosa multiflora* and trees on the unused part of the flat area, strip the tangled mass and bring the land into some semblance of order. With amazing speed this rough clearing was completed, enabling us to plow the land late in the summer and put in a winter cover crop. The first plowing was difficult; there were old post lines, buried lengths of barbed wire, large roots of *Rosa multiflora* and one mammoth tree root which has continued to defy all efforts to remove it. But the land generally was tamed, and the contours could now be examined with some thought of proper layout of the nursery blocks.

Drainage System Needed

The need for a greatly improved drainage system was immediately apparent, and it was decided that the whole question should be dealt with properly by digging and clearing a ditch around two sides of the land on the lower boundary. This ditch existed, but was choked with overgrown *Rosa multiflora*, box elder and a mass of other wild plants, which made it nearly valueless. A large trench digger was brought in, and in two days it completely transformed the ditch into a proper drainage way for the land and our neighbors' land also. In clearing the ditch, we found a number of land drains which had been set out on the area many years before but which were completely blocked. Once the outfall had been properly cleared, these drains com-

menced to run, and the water-logged section in the middle of the jungle rapidly cleared itself.

Ditch Must Be Clear

A year after the digging of this ditch we brought the digger back to clear the base of the ditch once more. I think that we shall continue to do this every two years or so. During the winter this ditch runs more or less continuously with a reasonable flow of water, but during the summer it becomes practically dry. However, in the extremely wet season that we experienced in the fall of this year, it became clear that had we not done this work, the whole flat area of land which we are now developing could not have been used for planting. Even though we dug this ditch, the problem of removing surface water remained.

After clearing the land and digging the main ditch, we next laid a tile drain underneath the center of the frame yard and connected this drain to the newly made ditch. A 3-inch tile was set into the trench; this, in turn, was covered with coarse pea gravel so that there would be no problem with stagnant surface water remaining in the frames at any time. This step has also proved to be wise, because even though we provided this drain, surface water has on one or two occasions seeped into the frames and been held up by the stock contained in them so that the water could not drain away in the proper manner. We have had to surface the bottom of the frames with a 6-inch layer of coarse gravel so that the water which might drain in from time to time could find its own level



Left, Land as It Appeared Before Being Cleared for Nursery Use; Right, Appearance of Site After Clearing Had Been Completed.



Left, old drainage ditch being opened to improve soil conditions of new nursery planting site; right, nursery area where the valuable topsoil has been completely removed by a bulldozer prior to erection of shed and greenhouse facilities.

beneath the flats of plants and thence move into the tile drain. This plan has entirely eliminated surface water in the area.

Soil Conservation

Seven years of close cooperation with the soil conservation service in south Jersey had proved to me the real value of wise soil conservation practices on any land; therefore, once the area was cleared, I was determined to protect the flat lower area from the somewhat rolling back section by putting in a proper terrace and waterway. This was one of the first developments that was made on the otherwise empty field, and I feel that it has materially lessened the surface water problem on the lower area.

The terrace was carefully plowed and graded and finally sowed to a mixture of brome and alfalfa. Although the soil conservation representatives do not favor the practice, we use the terrace as a main roadway and are now planting right up to the bottom of the terrace with our nursery stock. This is not good soil conservation practice, but because our area of usable land is severely restricted, we feel that we cannot lose more space above or below the terrace for a roadway. We are prepared to maintain the herbage on the terrace carefully so that erosion does not take place if the traffic should become too heavy.

All areas not intended for immediate planting were then sown to a winter cover crop, which in the first year was brome grass and crimson clover. An extremely heavy herbage resulting from sowing in mid-August was allowed to remain undisturbed over a 2-year period. During this time the crimson clover largely died out, but the brome grass filled in to produce an extremely heavy sod.

The sod remained undisturbed, apart from an occasional cutting to prevent the grass from seeding again, until we needed the land for planting.

With the land cleared, the waterway and terrace constructed and sown to a permanent sod and the rest of the land sown down to a winter cover crop, we could begin to mark out our nursery areas and blocks. This was done on a square pattern, setting the blocks 150 feet apart, with a 15-foot road between each. The roads were carefully lined up to coincide with our buildings, and the whole block was set out in a square and shipshape manner.

The following spring, the first section we desired to use was plowed up, the cover crop being turned over, but not before we had applied a light dressing of fertilizer to encourage the rotting of the heavy winter herbage. The first section that we decided to use had a slight slope to the south, so we felt that no additional drainage or preparation of the land was necessary. We did do a small amount of land leveling to fill in a low area, but as we have developed into other sections of the nursery, we have found it desirable to spend more time and effort on the leveling of a block before we begin planting. We had bulldozers and a high lift, together with some dump trucks, while working on a section of land nearly a week in order to remove high spots and fill in low spots so that the finished block would be reasonably level.

Surface Drainage

We do not require a truly level area, but we do think that high and low spots should be eliminated and a running level established so that water can drain from one end to the other. We are able then to establish nursery beds, which are six feet

wide; dig out the aisles, which are two feet and six inches, and raise the beds above the general level. The aisles, which become natural drainage areas for the surface water, run from one end to the other of the 150-foot block, emerging at the lower end onto the 15-foot road.

Roadway Drainage

Our roads now have been carefully graded to act as surface water drains for the water which comes to them from the planted areas, carrying the water down the field and depositing it in the ditch around the perimeter. This system works well. The roads become compacted with the continual travel, and erosion is reduced to a minimum. Yet, on the other hand, large amounts of surface water can be removed from the planted areas without difficulty.

We passed through four days of extremely wet weather this fall in which nearly six inches of water were received in an almost continuous rain. At no time were any of the plants in nursery beds in any danger from accumulated surface water. The ground became sodden, yet no plants were under water or harmed in any way. Now that the rain has ceased, the surface water rapidly has drained off, the soil in the raised beds in turn has drained down and the plants again have a nearly normal soil condition. We believe that this careful adjustment of the land levels to insure good surface drainage is a vital factor in the successful growth of good plants. It has been a somewhat laborious and expensive business, but now that it is nearing completion, we are pleased with the manner in which the scheme is working.

Another procedure which we conscientiously followed as we laid out our land for use was the generous

[Continued on page 49]

NO MOSS...NO MESS

After 1800-mile shipment, these rose bushes ("poly-wrapped" without peat moss) arrived **fresh** from Texas grower ready for planting by Massachusetts customer.



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keeps plants "nursery-fresh" until they are unwrapped by your customers.

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And again it is CHICAGO IN JANUARY!

For the largest gathering of nurserymen that will be brought together by any of the winter meetings.

It will pay you to be there, and it will also pay you to make your hotel reservations NOW. Indications are that our 1959 convention will again be the "largest ever."

Of all months, January is the heaviest convention month in Chicago, and hotel men advise us that the situation will be tight and early reservations necessary. Write now for your reservations to the Hotel La Salle, La Salle and Madison Sts., Chicago 2, Ill., and be sure to mention the nurserymen's meetings.

The meeting dates in 1959 will be Monday, Tuesday and Wednesday, January 12-13-14. Meetings of a number of allied associations will be held during the week. The registration desk will be open Sunday, January 11.

Illinois State Nurserymen's Association Annual Convention

January 12-13-14, 1959

NATIONAL LANDSCAPE NURSERYMEN'S ASSOCIATION Midwinter Conference January 11, 1959

Closed meetings of a number of allied national nurserymen's associations will also be held over the week-end.

ILLINOIS STATE NURSERYMEN'S ASSOCIATION

Plan to

COME TO KANSAS CITY FOR THE

69th Annual Meeting

WESTERN ASSOCIATION OF NURSERYMEN

January 7, 8 and 9, 1959

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COMING EVENTS

MEETING CALENDAR

December 30 — Connecticut Nurserymen's Association, annual meeting, Waverly Inn, Cheshire, Conn.

January 4 to 6, 1959—North Carolina Association of Nurserymen, winter meeting, College Union, North Carolina State College, Raleigh, N. C.

January 5 and 6 — Oklahoma State Nurserymen's Association, annual convention, Biltmore hotel, Oklahoma City, Okla.

January 5 to 7 — Eastern Regional Nurserymen's Association, annual winter meeting, Hotel Statler, New York, N. Y.

January 5 to 7—Indiana Association of Nurserymen, winter meeting, Purdue Memorial Union, Purdue University, West Lafayette, Ind.

January 6 to 8—Virginia nurserymen's short course, Fairfax, Va.

January 7—Sixth annual conference in landscape architecture for Iowa nurserymen, Memorial Union, Iowa State College, Ames, Ia.

January 7 to 9—Indiana Arborist's Association, annual meeting, Memorial Center, Purdue University, Lafayette, Ind.

January 7 to 9—Western Association of Nurserymen, annual convention, Hotel Bellerive, Kansas City, Mo.

January 8—Massachusetts Nurserymen's Association, annual meeting, Hotel Kenmore, Boston, Mass.

January 8 and 9—Oregon Association of Nurserymen, annual convention, Hotel Eugene, Eugene, Ore.

January 8 to 10—Iowa Nurserymen's Association, annual convention, Hotel Kirkwood, Des Moines, Ia.

January 11—National Landscape Nurserymen's Association, winter meeting, Hotel La Salle, Chicago, Ill.

January 11 to 13—New York State Arborists' Association, short course, Cornell University, Ithaca, N. Y.

January 12 — National Mail Order Nurserymen's Association, Inc., winter meeting, Douglas room, Hotel La Salle, Chicago, Ill.

January 12 to 14—Illinois State Nurserymen's Association, winter convention, Hotel La Salle, Chicago, Ill.

January 14—Maryland Nurserymen's Association, annual meeting, Baltimore, Md.

January 15 and 16—Kansas state shade tree conference, annual conference, Kansas State College, Manhattan.

January 19 to 22—Ohio Nurserymen's Association, annual meeting, combined with annual Ohio State University short course for arborists, landscape gardeners and nurserymen, Neil House, Columbus, Ohio.

January 21 and 22—Connecticut Nurserymen's Association, short course, University of Connecticut, Storrs.

January 22 to 23—New Jersey Association of Nurserymen, winter meeting, Chalfonte-Haddon Hall hotel, Atlantic City, N. J.

January 23—Western New York Nurserymen's Association, short course, University of Connecticut, Storrs.

[Continued on page 22]



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 - * * Audie Murphy
 - * * Bingo
 - * * Blanche Mallerin
 - * * BURNABY
 - * * Capistrano
 - * * Charlotte Armstrong
 - * * Chrysler Imperial
 - * * First Love
 - * * Fort Knox
 - * * FORT VANCOUVER
 - * * Forty-Niner
 - * * Fred Edmunds
 - * * Fred Howard
 - * * Golden Masterpiece
 - * * Golden Wings
 - * * Good News
 - * * Grande Duchesse
 - * * Charlotte
 - * * Helen Traubel
 - * * Lemon Chiffon
 - * * Living Rose
 - * * Love Song

Patented Hybrid Teas (Continued)

- Grade
1 1/2
- * * Lowell Thomas
 - * * Mirandy
 - * * Mojave
 - * * New Yorker
 - * * Nocturne
 - * * OREGON CENTENNIAL
 - * * Peace
 - * * PINK FAVORITE
 - * * Pink Frost
 - * * Rose of Freedom
 - * * Sutter's Gold
 - * * Tallyho
 - * * THE DUKE
 - * * Tiffany
 - * * White Knight

PATENTED GRANDIFLORAS

- * * Buccaneer
- * * Carrousel
- * * Dean Collins
- * * Montezuma
- * * Roundelay
- * * Starfire

PATENTED FLORIBUNDAS

- Grade
1 1/2
- * * AMY
 - * * BELLINA
 - * * Circus
 - * * ENCORE
 - * * Fashion
 - * * Fusilier
 - * * Gold Cup
 - * * Goldilocks
 - * * Ivory Fashion
 - * * Jiminy Cricket
 - * * Ma Perkins
 - * * Pinkie
 - * * Pinocchio
 - * * Red Pinocchio
 - * * Spartan

Patented Floribundas (Continued)

- Grade
1 1/2
- * * Vogue
 - * * White Bouquet

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ORDERS: Orders are booked subject to crop failure or injury to stock and to errors in count or grade.

CLAIMS: Claims made for any reason must be made promptly to receive consideration. Claims for errors in count or for stock injured in packing or otherwise must be made within 10 days of receipt of stock. Claims made promptly will receive careful consideration. We do not guarantee the life of any stock. We do guarantee to ship good-quality plants, in good condition when we load them out.

QUANTITIES: Our prices are based entirely on wholesale quantities, and on long and widely assorted stock, the per 10 price will prevail, even if a full load of stock is ordered. This is necessary because the greater cost of assembling and loading such an order. Normally 25 or more plants will take the 100 price.

SHIPPING: All stock is sold F.O.B. our nursery at Collierville and travels at the risk and expense of the purchaser. We do have access to a large fleet of refrigerator semitrailer vans at a very advantageous rate and can arrange for delivery to you very economically. We make pool shipments to customers who want less than a full truckload of plants and we usually prepay freight charges on pool shipments and prorate freight to the customers on a weight basis. We do not box any plants for L.C.L. shipment.

AMERICAN ARBORVITAE VARIETIES

(*Thuja occidentalis*)

	Per 10	Per 100
Dark Green American Arborvitae		
30 to 36 ins.	\$2.25	\$2.00
3 to 4 ft.	2.75	2.50
4 to 5 ft.	3.50	3.00
Compacta erecta globosa Arborvitae		
15 to 18 ins.	1.60	1.40
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.60
Globosa (American Globe) Arborvitae		
12 to 15 ins.	1.45	1.25
15 to 18 ins.	1.80	1.60
18 to 24 ins.	2.25	2.00
24 to 30 ins.	2.75	2.50
Pyramidal American Arborvitae		
18 to 24 ins.	1.60	1.35
24 to 30 ins.	1.80	1.65
30 to 36 ins.	2.50	2.25
3 to 4 ft.	3.00	2.75
4 to 5 ft.	3.75	3.50
5 to 6 ft.	4.50	4.25

ORIENTAL ARBORVITAE VARIETIES

(*Thuja orientalis*)

	Per 10	Per 100
Baker Arborvitae		
2 to 3 ft.	\$1.40	\$1.35
Berckmans Arborvitae		
15 to 18 ins.	1.40	1.20
18 to 24 ins.	1.70	1.50
Blue Cone Arborvitae		
18 to 24 ins.	1.20	1.00
24 to 30 ins.	1.45	1.25
30 to 36 ins.	1.70	1.50
Bonita Arborvitae		
15 to 18 ins.	1.35	1.20
18 to 24 ins.	1.65	1.50
Excelsa Arborvitae		
24 to 30 ins.	1.40	1.25
30 to 36 ins.	1.70	1.50
Golden Ball Arborvitae		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.50	1.35
Newark Arborvitae		
24 to 30 ins.	1.40	1.25
30 to 36 ins.	1.70	1.50

JUNIPERS, SPREADING VARIETIES

	Per 10	Per 100		Per 10	Per 100
Andorra Juniper			Hetz Blue Juniper		
15 to 18 ins.	\$1.60	\$1.40	15 to 18 ins.	\$1.45	
18 to 24 ins.	1.90	1.75	18 to 24 ins.	2.00	
24 to 30 ins.	2.50	2.25	24 to 30 ins.	2.50	
Andorra Juniper, green			30 to 36 ins.	3.00	
15 to 18 ins.	1.60	1.40	Savin Juniper		
18 to 24 ins.	1.90	1.75	12 to 15 ins.	1.00	
24 to 30 ins.	2.50	2.25	15 to 18 ins.	1.35	
Meyer Juniper			18 to 24 ins.	1.75	
15 to 18 ins.	1.75	1.50	Von Ehron Juniper		
Pfitzer Juniper			15 to 18 ins.	1.35	
12 to 15 ins.	1.25	1.10	18 to 24 ins.	1.75	
15 to 18 ins.	1.65	1.50	24 to 30 ins.	2.25	
18 to 24 ins.	2.20	2.00	30 to 36 ins.	2.75	
24 to 30 ins.	2.75	2.50	Rependens Juniper		
Pfitzer Blue Juniper			(<i>Virginiana rependens</i>), dark green, good winter color		
15 to 18 ins.	1.65	1.50	12 to 15 ins.	1.00	
18 to 24 ins.	2.25	2.00	15 to 18 ins.	1.35	
24 to 30 ins.	2.75	2.50	18 to 24 ins.	1.75	
Compact Pfitzer Juniper			Virginialis Juniper		
12 to 15 ins.	1.25	1.10	Vase-shaped, light green		
15 to 18 ins.	1.65	1.50	15 to 18 ins.	1.35	
18 to 24 ins.	2.20	2.00	18 to 24 ins.	1.75	
24 to 30 ins.	2.75	2.50	24 to 30 ins.	2.25	
Pfitzer Nana Juniper					
12 to 16 ins.	1.25	1.10			
15 to 18 ins.	1.65	1.50			
18 to 24 ins.	2.20	2.00			

JUNIPERS, UPRIGHT VARIETIES

	Per 10	Per 100		Per 10	Per 100
Juniperus virginiana glauca			Fastigiata Juniper		
2 to 3 ft.	\$2.75	\$2.50	24 to 30 ins.	\$1.10	
3 to 4 ft.	3.75	3.50	30 to 36 ins.	1.40	
Juniperus virginiana burki			3 to 4 ft.	2.25	
2 to 3 ft.	2.75	2.50	4 to 5 ft.	2.75	
3 to 4 ft.	3.75	3.50	5 to 6 ft.	3.75	
Juniperus virginiana canescens			Greek Juniper		
2 to 3 ft.	2.75	2.50	(<i>Juniperus excelsa stricta</i>)		
3 to 4 ft.	3.75	3.50	15 to 18 ins.	1.35	
4 to 5 ft.	4.75	4.50	18 to 24 ins.	1.65	
Cupressifolia Juniper			24 to 30 ins.	2.25	
(<i>Hillspire Juniper</i>)			Hetz glauca Juniper, pyramids		
2 to 3 ft.	2.75	2.50	(<i>Hetz Glauca</i>), staked and trained to pyramids		
3 to 4 ft.	3.75	3.50	24 to 30 ins.	2.25	
Dundee Juniper			30 to 36 ins.	3.00	
2 to 3 ft.	2.75	2.50	3 to 4 ft.	3.75	
			Mascula Juniper		
			(<i>Juniperus chinensis mascula</i>), gray-green pyramids		
			3 to 4 ft.	2.75	
			Von Ehron Juniper, pyramids		
			(<i>Juniperus sabina vonehron</i>), staked and trained to pyramids		
			24 to 30 ins.	2.25	
			30 to 36 ins.	3.00	
			3 to 4 ft.	3.75	

MISCELLANEOUS CONIFERS

	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100
<i>Garee Cypress</i>			<i>Chamaecyparis Cyano Viridis</i>			<i>Austrian Pine (Cont'd.)</i>		
2 to 4 ft.	\$3.25	\$3.00	24 to 30 ins.	\$1.50	\$1.25	30 to 36 ins.	\$2.50	\$2.25
<i>Juniperus atlantica</i>			30 to 36 ins.	2.00	1.75	3 to 4 ft.	3.25	3.00
2 to 3 ft.	1.75	1.50	3 to 4 ft.	2.50	2.25	<i>White Pine (Pinus strobus)</i>		
3 to 4 ft.	2.75	2.50	<i>Austrian Pine (Pinus nigra)</i>			18 to 24 ins.	1.40	1.25
4 to 5 ft.	3.75	3.50	18 to 24 ins.	1.40	1.25	24 to 30 ins.	2.00	1.75
<i>Juniperus deodora</i>			24 to 30 ins.	2.00	1.75	30 to 36 ins.	2.50	2.25
2 to 3 ft.	1.75	1.50				3 to 4 ft.	3.25	3.00
3 to 4 ft.	4.75	4.50						

BROAD-LEAVED EVERGREENS

	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100
<i>Ardisia grandiflora</i>			<i>Ilex East Palatka</i>			<i>Nandina domestica</i>		
2 to 3 ft.	\$1.25	\$1.00	2 to 3 ft.	\$2.25	\$2.00	15 to 18 ins.	\$0.80	\$0.75
3 to 4 ft.	1.50	1.25	3 to 4 ft.	3.25	3.00	18 to 24 ins.	1.00	.90
<i>Illicium anisatum</i>			4 to 5 ft.	4.25	4.00	24 to 30 ins.	1.40	1.25
2 to 3 ft.	1.50	1.25	5 to 6 ft.	5.50	5.00	30 to 36 ins.	1.65	1.50
<i>Podocarpus harlandi</i>			6 to 7 ft.	7.50	7.00	3 to 4 ft.	2.25	2.00
6 to 8 ins. ....	.60	.50	<i>Ilex fosteri (Foster No. 2)</i>			<i>Viburnum burkwoodi</i>		
8 to 10 ins. ....	.85	.75	2 to 3 ft.	2.25	2.00	18 to 24 ins.	1.65	1.50
<i>Podocarpus decora lactea</i>			3 to 4 ft.	3.25	3.00	24 to 30 ins.	1.90	1.75
24 to 30 ins.	1.50	1.25	<i>Ilex opaca howardi</i>			30 to 36 ins.	2.25	2.00
30 to 36 ins.	2.00	1.75	2 to 3 ft.	2.25	2.00	<i>Viburnum cerasifolium</i>		
<i>Podocarpus pungens</i>			3 to 4 ft.	3.25	3.00	18 to 24 ins.	1.65	1.50
2 to 3 ft.	1.25	1.00	4 to 5 ft.	4.25	4.00	<i>Viburnum juddi</i>		
3 to 4 ft.	1.75	1.50	5 to 6 ft.	5.50	5.00	15 to 18 ins.	1.40	1.25
<i>Podocarpus coloratus</i>			<i>Ilex opaca Hume No. 2</i>			18 to 24 ins.	1.65	1.50
18 to 24 ins.	1.20	1.00	2 to 3 ft.	3.25	3.00	<i>Viburnum rhytidophyllum</i>		
24 to 30 ins.	1.40	1.25	4 to 5 ft.	4.25	4.00	(Leather-leaved Snowball)		
30 to 36 ins.	1.75	1.50	5 to 6 ft.	5.50	5.00	18 to 24 ins.	1.65	1.50
<i>Podocarpus patens</i>			<i>Ilex opaca Reynolds</i>			24 to 30 ins.	1.90	1.75
18 to 24 ins.	1.20	1.00	2 to 3 ft.	2.25	2.00	30 to 36 ins.	2.25	2.00
24 to 30 ins.	1.40	1.25	3 to 4 ft.	3.25	3.00	<i>Magnolia nigra</i>		
30 to 36 ins.	1.75	1.50	<i>Ilex vomitoria, small-leaved, sheared</i>			(Purple Magnolia)		
3 to 4 ft.	2.25	2.00	18 to 24 ins.	1.15	1.00	2 to 3 ft.	\$1.75	\$1.50
<i>Podocarpus stricta nana</i>			24 to 30 ins.	1.65	1.50	<i>Magnolia soulangeana</i>		
15 to 18 ins.	1.00	.75	30 to 36 ins.	2.25	2.00	(Pink Magnolia)		
<i>Podocarpus burfordi</i>			3 to 4 ft.	2.75	2.50	2 to 3 ft.	2.25	2.00
18 to 24 ins.	1.10	1.00	<i>Ilex vomitoria Pride of Houston</i>			3 to 4 ft.	3.00	2.75
24 to 30 ins.	1.40	1.25	18 to 24 ins.	1.15	1.00	4 to 5 ft.	3.75	3.50
30 to 36 ins.	1.65	1.50	24 to 30 ins.	1.65	1.50	5 to 6 ft.	5.00	4.50
<i>Podocarpus femina</i>			30 to 36 ins.	2.25	2.00	<i>Magnolia stellata (Star Magnolia)</i>		
18 to 24 ins.	1.10	1.00	<i>Ilex vomitoria nana (Dwarf Yaupon)</i>			18 to 24 ins.	2.25	2.00
24 to 30 ins.	1.40	1.25	12 to 15 ins.	1.50	1.25	2 to 3 ft.	3.25	3.00
30 to 36 ins.	1.65	1.50	15 to 18 ins.	2.00	1.75	<i>Liners</i>		
<i>Podocarpus hume</i>			<i>Jasminum floridum</i>			<i>Pot Liners</i>		
Rectangular leaf, semidwarf			15 to 18 ins.	1.15	1.00	R—Rose Pots P—Peat Pots		
15 to 18 ins.	1.40	1.25	18 to 24 ins.	1.40	1.25			
24 to 30 ins.	1.65	1.50	24 to 30 ins.	1.70	1.50	<i>Elaeagnus fruticosa, 2 1/2-in. R</i>		Each
30 to 36 ins.	2.25	2.00	30 to 36 ins.	2.00	1.75	<i>Ilex burfordi, 3-in. P</i>		\$0.12
<i>Podocarpus stricta nana</i>			<i>Ligustrum lucidum (Black Wax)</i>			<i>Ilex crenata convexa, 3-in. P</i>		.17 1/2
15 to 18 ins.	1.00	.75	24 to 30 ins.	1.25	1.10	<i>Ilex crenata hetsi, 2 1/2-in. R</i>		.15
<i>Podocarpus burfordi</i>			30 to 36 ins.	1.50	1.35	<i>Ilex crenata repandens, 2 1/2-in. R</i>		.15
18 to 24 ins.	1.10	1.00	<i>Ligustrum lucidum, Griffing type</i>			<i>Ilex opaca East Palatka, 2 1/2-in. R</i>		.17 1/2
24 to 30 ins.	1.40	1.25	24 to 30 ins.	1.25	1.10	<i>Laurocerasus caroliniana, 2 1/2-in. R</i>		.12
30 to 36 ins.	1.65	1.50	30 to 36 ins.	1.50	1.35	<i>Magnolia glauca, 2 1/2-in. R</i>		.12
<i>Podocarpus femina</i>			<i>Ligustrum lucidum Suwannee River</i>			<i>Osmanthus aquifolium, 2 1/2-in. R</i>		.15
18 to 24 ins.	1.10	1.00	15 to 18 ins.	1.50	1.25	<i>Osmanthus fortunei, 6 to 8 ins., 2 1/2-in. R</i>		.17 1/2
24 to 30 ins.	1.40	1.25	18 to 24 ins.	2.25	2.00	<i>Thuja occidentalis compacta erecta</i>		.17 1/2
30 to 36 ins.	1.65	1.50	24 to 30 ins.	2.75	2.50	<i>Thuja occidentalis globosa, 2 1/2-in. R</i>		.17 1/2
<i>Podocarpus stricta nana</i>			<i>Carolina Cherry Laurel</i>			<i>Thuja occidentalis nigra, 2 1/2-in. R</i>		.17 1/2
15 to 18 ins.	1.00	.75	2 to 3 ft.	1.50	1.25	<i>Thuja occidentalis pyramidalis, 2 1/2-in. R</i>		.17 1/2
<i>Podocarpus burfordi</i>			3 to 4 ft.	1.75	1.50	<i>Thuja occidentalis wareana, 2 1/2-in. R</i>		.17 1/2
18 to 24 ins.	1.10	1.00	4 to 5 ft.	2.75	2.50	<i>Thuja orientalis Berckmans Golden</i>		.17 1/2
24 to 30 ins.	1.40	1.25	5 to 6 ft.	3.75	3.50	<i>Thuja orientalis excelsa, 2 1/2-in. R</i>		.17 1/2
<i>Podocarpus femina</i>			<i>Laurel, English</i>			<i>Thuja orientalis fruitlandi, 2 1/2-in. R</i>		.17 1/2
18 to 24 ins.	1.10	1.00	18 to 24 ins.	1.15	1.00	<i>Thuja orientalis Bonita, 2 1/2-in. R</i>		.17 1/2
24 to 30 ins.	1.40	1.25	2 to 3 ft.	1.75	1.50	<i>Thuja orientalis newarkii, 2 1/2-in. R</i>		.17 1/2
<i>Podocarpus stricta nana</i>			<i>Laurel, sabali</i>			<i>Viburnum burkwoodi, 6 to 8 ins., 2 1/2-in. R</i>		.17 1/2
15 to 18 ins.	1.00	.75	(Star-leaved Laurel)			<i>Bed-Grown Liners</i>		
24 to 30 ins.	1.40	1.25	15 to 18 ins.	1.40	1.25	<i>Buxus harlandi, T., 1-yr., 4 to 6 ins.</i>		.08
<i>Podocarpus burfordi</i>			18 to 24 ins.	2.00	1.75	<i>Buxus harlandi, T., 2-yr., 6 to 8 ins.</i>		.12
18 to 24 ins.	1.10	1.00	<i>Loropetalum chinense</i>			<i>Chamaecyparis lawsoniana allum.</i>		.15
24 to 30 ins.	1.40	1.25	(Texas Fringe)			T., 1-yr., 6 to 8 ins.		.15
<i>Podocarpus femina</i>			18 to 24 ins.	1.15	1.00	<i>Ilex burfordi, T., 2-yr., 6 to 10 ins.</i>		.15
18 to 24 ins.	1.10	1.00	24 to 30 ins.	1.75	1.50	<i>Ilex crenata rotundifolia</i>		.15
24 to 30 ins.	1.40	1.25	<i>Magnolia grandiflora</i>			T., 2-yr., 6 to 8 ins.		.12
<i>Podocarpus stricta nana</i>			2 to 3 ft.	1.75	1.50	<i>Jasminum floridum, T., 8 to 12 ins.</i>		.12
15 to 18 ins.	1.00	.75	3 to 4 ft.	2.75	2.50	<i>Field-Grown Liners</i>		
24 to 30 ins.	1.40	1.25	4 to 5 ft.	3.75	3.50	<i>Ilex crenata rotundifolia, TT.</i>		
<i>Podocarpus burfordi</i>			5 to 6 ft.	5.00	5.00	<i>Ilex crenata convexa, TT., 4-year, field-grown</i>		
18 to 24 ins.	1.10	1.00	<i>Magnolia glauca (Sweet Bay)</i>			plants, many times trimmed—specimen qual-		
24 to 30 ins.	1.40	1.25	2 to 3 ft.	1.50	1.25	ity—fine for cans.		Each
<i>Podocarpus femina</i>			3 to 4 ft.	2.25	2.00	10 to 12 ins.		\$0.40
18 to 24 ins.	1.10	1.00	4 to 5 ft.	3.25	3.00	12 to 15 ins. ....		.60
24 to 30 ins.	1.40	1.25	5 to 6 ft.	4.50	4.00			
<i>Podocarpus stricta nana</i>			6 to 7 ft.	7.00	7.00			
15 to 18 ins.	1.00	.75						
24 to 30 ins.	1.40	1.25						

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Patent No. 2,642,684

NEWEST AND MOST PRACTICAL OF ALL PLANT LABELS!


SO NEW! SO PRACTICAL!

16 times stronger in sub-zero temperatures

Patented locking device assures you a permanent, easily attached, adjustable label. Minimizes girdling the canes of either soft or hard wood plants. Guards against loss of labels. Absolutely waterproof. Will not wilt in hot weather.

Plain or varieties imprinted permanently

Add \$2.00 to imprinted prices if imprinting is desired on both sides. Trade-marks billed at cost. Photos or black-and-white drawings must accompany trade-mark orders. Parcel-post shipment up to 20 lbs. Over 20 lbs., least expensive way possible—unless otherwise specified. All shipments F.O.B. DAYTONA BEACH, FLA.

	YOUR NAME HERE	PRICE
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Available in 5 fade-proof colors . . . RED, GREEN, ORANGE, YELLOW, WHITE.

No.	Size	Per 1000	Imprinted Per 1000	Weight
No. 25 (1/2x5 ins.)				
1000 to 4000		\$5.50	\$7.00	1 1/4 LBS.
5000 to 9000		4.75	6.00	
10 000 to 49 000		4.00	4.75	
50 000 to 99 000		3.25	4.00	
100,000 or more		2.50	3.25	PER 1000
No. 87-87C (3/4x7 ins.)				
1000 to 4000		7.50	9.00	2 1/4 LBS.
5000 to 9000		6.50	7.75	
10 000 to 49 000		5.50	6.25	
50 000 to 99 000		4.75	5.50	
100,000 or more		4.00	4.75	PER 1000
No. 47-47C (3/4x7 ins.)				
1000 to 4000		8.50	10.00	3 LBS.
5000 to 9000		7.50	8.75	
10 000 to 49 000		7.00	7.75	
50 000 to 99 000		6.25	7.00	
100,000 or more		5.50	6.25	PER 1000

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ENCLOSED FIND \$..... FOR WHICH YOU MAY SHIP THE FOLLOWING ITEMS CHECKED BELOW BYEXPRESS;PARCEL POST;MOTOR FREIGHT;BEST WAY.

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CITY..... ZONE..... STATE.....
STREET NO..... R.F.D..... BOX.....
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PLASTIC "SLIP-ON" LABELS

SIZE	QUANTITY	IMPRINT NAME & ADDRESS	IMPRINT VARIETIES	IMPRINT TRADE-MARK	PRICE
NO. 25					
NO. 87					
NO. 87C					
NO. 47					
NO. 47C					

IMPRINT MY "SLIP-ON" LABELS AS FOLLOWS:.....

* A VARIETY LIST IS ENCLOSED.....(yes or no) Made in U. S. A.

ernymen's Association, annual meeting, Sheraton hotel, Rochester, N. Y.

January 23 and 24—Washington State Nurserymen's Association, winter meeting, Benjamin Franklin hotel, Seattle, Wash.

January 25 to 27—Virginia Nurserymen's Association, 28th annual convention, Hotel John Marshall, Richmond, Va.

January 26 to 28—Kentucky Nurserymen's Association, annual convention, Kentucky hotel, Louisville, Ky.

January 27—Southern California nursery institute, University of California, Los Angeles, Calif.

January 28 to 30—Michigan Association of Nurserymen, annual convention, Hotel Pantlind, Grand Rapids, Mich.

January 29 and 30 — Pennsylvania Nurserymen's Association, winter meeting, Penn Sheraton hotel, Pittsburgh, Pa.

February 1 to 3—Tennessee Nurserymen's Association, annual convention, Dinkler-Andrew Jackson hotel, Nashville, Tenn.

February 3—Delaware nurserymen's short course, Agricultural Hall auditorium, University of Delaware, Newark, Del.

February 3 and 4—Short course for Oregon nurserymen, sponsored by Oregon State College, Corvallis.

February 3 to 5—New England Nurserymen's Association, annual meeting, Hotel Kenmore, Boston, Mass.

February 5—Northern California nursery institute, University of California, Davis, Calif.

February 8 to 10—National Arborist Association, winter meeting, Williamsburg Inn, Williamsburg, Va.

February 10 to 12—Southern chapter, National Shade Tree Conference, regional meeting, Williamsburg Lodge, Williamsburg, Va.

February 11—Lake County Nurserymen's Association, nurserymen's school, Hellriegel's Inn, Painesville, O.

February 17 to 19—Pennsylvania State University's nurserymen's conference, Pennsylvania State University, University Park, Pa.

February 18 to 20—Midwestern chapter, National Shade Tree Conference, winter meeting, Hotel La Salle, Chicago, Ill.

February 19—Maryland Nurserymen's Association, short course, University of Maryland, College Park, Md.

February 19 and 20—Massachusetts Nurserymen's Association, short course, Waltham field station, University of Massachusetts, Waltham, Mass.

February 22 to 25—Canadian Association of Nurserymen, annual meeting, Garden Center hotel, Vineland Station, Ont., Canada.

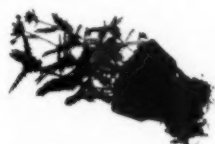
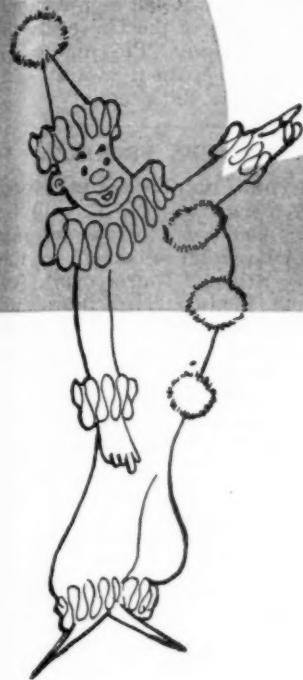
CONNECTICUT SPEAKERS

The winter meeting of the Connecticut Nurserymen's Association, to be held December 30 at the Waverly Inn, Cheshire, Conn., will be primarily a business meeting at which all committees will give their reports and new officers will be elected. According to Erwin W. Whitham, secretary of the association, the program

Add 3
For
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5", 5"

Make this a Banner Profit Year
with **BIRD**
GROWING CONTAINERS

Enjoy a gala carnival of Profit with Bird Growing Containers. Profit through low cost. Profit through time and labor saving. Profit through prime plants. Profit through top prices. Order from your distributor or send coupon for prices and complete information.



BIRD VITA-GREEN POTS
Ideal For Re-Sale

Contains roots an average of 8-10 weeks, disintegrates after transplanting. Nutrient treated. Especially durable for annuals, bedding plants and vegetable plants intended for re-sale. Five sizes — 2¼", 2½", 3", 3½", 4".



BIRD PEAT POTS
Square or Round

Strong, rigid, durable. Nutrient treated to feed plant. Rugged Rim. Ideal for transplanting to field, bench, larger containers. 2¼" or 3" round; 2½" or 3" square.



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Durable — Inexpensive

Add 3-5 months to your sales season. For all perennials, bulbs, shrubs. Completely assembled. Four sizes — 5", 5½", 6½", 9½" heights.



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Helps promote sales of twelve or six plants at one time. Light, durable, moisture control. May be used with Vita-Bands, Peat Pots, Vita-Green Pots. Three sizes.



BIRD VITA-BANDS
Prevent Transplant Shock

Nutrient treated. Contains roots to transplant stage. Promotes early maturity. Vita-Band "10" for annual and vegetable plants; Vita-Band "H" for perennials and long-term crops. Vita-Band "D" especially adapted for mechanical transplanting. Eight sizes.

Quality Products Since 1795 • FLOOR COVERINGS; ROOFING & SIDINGS; FIBRE & PAPER BOXES; INDUSTRIAL PRODUCTS.



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with **BIRD** Growing Containers

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Please send me free literature, prices and growing instructions on the following:

(Check items on which you want information.)

☐ Peat Pots ☐ Vita-Green Pots ☐ Perennial Pots
☐ Vita-Bands ☐ Gro-Tainer Seedling Flats

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City & State.....

RHODODENDRON

We are growing over 100 named hybrid varieties on their own roots. These are available in sizes ranging from liners to 4-ft., heavy field plants. Our plants are exceptionally nice; most varieties are well-budded. If you need rhododendron, we have the finest. Efficient volume production enables us to quote these low prices. Come see them.

ROSEUM ELEGANS

	Each per 100
12 to 15 ins.	\$ 1.75
15 to 18 ins.	2.50
18 to 21 ins.	3.00
21 to 24 ins.	4.00
24 to 27 ins.	5.00
27 to 30 ins.	5.75
2½ to 3 ft.	7.00
3 to 3½ ft.	8.00

REDS:

America, Dr. Dresselhuys, F. D. Godman, Ignatius Sargent, V. W. Poelman, John Walter, etc.

15 to 18 ins.	3.00
18 to 21 ins.	3.75
21 to 24 ins.	4.50
24 to 27 ins.	6.00
27 to 30 ins.	7.00
2½ to 3 ft.	8.50
3 to 3½ ft.	10.00

Other varieties of pink and red as well as white, purple, etc., as listed in our fall, 1958, spring, 1959, catalog.

We also offer in quantity, many other varieties of broad-leaved as well as narrow-leaved evergreens in sizes ranging from cash-and-carry to heavy landscape material.

Write for complete list.

ANGELICA NURSERIES

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Growers of Fine Plants

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TAXUS

In varieties,
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610 W. Montauk Hwy.

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PENNSYLVANIA EVERGREEN SEEDLINGS

We have the best for Christmas trees. Pines, Spruces, Firs. Send for listing today.

SCHROTH'S NURSERY

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NOT TOO EARLY To Order ROSEBUSHES

For winter or spring delivery.
Order while our selection is complete.

Send for list.

SOMERSET ROSE NURSERY, INC.

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New Brunswick, N. J.

LINING-OUT STOCK

AZALEAS — hardy American and Asiatic.
TAXUS — the better varieties.

BROOKFIELD GARDENS

Rt. 46 DELAWARE, N. J.

EVERGREEN SEEDLINGS

Growers of Quality Evergreen Seedlings and Transplants.
Free price list and planting guide.

Visitors Welcome

FLICKINGERS' NURSERY

Box 13 Sagamore, Pa.

will feature two guest speakers, Dr. Richard P. White, executive vice-president of the American Association of Nurserymen, and Joseph N. Gill, commissioner of agriculture for the state of Connecticut. Dinner will be served at the inn at noon, and scholarship awards will be presented to two students of the University of Connecticut, Storrs. Presentation of 4H Club achievement awards will also be made at the meeting.

EASTERNERS' PROGRAM

The entire 18th floor of the Hotel Statler, New York, N. Y., will be reserved January 5 to 7 for sessions of the convention to be held by the Eastern Regional Nurserymen's Association. Registration facilities and exhibits will open at 10 o'clock Monday morning, January 5. The program follows:

JANUARY 5

1:30 p. m.—Welcome address, by Willard M. Bond, president, E. R. N. A.

1:45 p. m.—Open meeting. New York State Nurserymen's Association: Address by A. E. Synesael, president, New York State Nurserymen's Association.

2 p. m.—Address by Edwin Kirk, director, plant industry bureau. New York department of agriculture and markets.

2:30 p. m.—Address by Dr. Charles Palm, dean, New York State College of Agriculture.

3 p. m.—Illustrated lecture on Rochester parks, by Wilbur Wright, superintendent of parks, Rochester, N. Y.

6 p. m.—Annual reception.

JANUARY 6

8 a. m.—Breakfast meeting, nominating committee, region I, American Association of Nurserymen.

10 a. m.—General meeting, region I, A. A. N.: Treasurer's and secretary's reports and presentation of new slate of officers.

10:45 a. m.—"The A. A. N. Story"—panel discussion, with Valteau C. Curtis, Callicoon, N. Y., A. A. N. vice-president, as moderator, and Robert Hobbs, Bridgeport, Ind., president, A. A. N.; Howard P. Quadland, New York, N. Y., director of public information, A. A. N., and delegates from A. A. N. region I, panel members.

12:30 p. m.—Lunch, with Dr. Carl W. Gartlein, physics department, Cornell University, Ithaca, N. Y., guest speaker.

2:15 p. m.—Country Fair Forum: "To What Extent Should the Wholesaler Help the Retailer and to What Extent Should the Retailer Help the Wholesaler in Merchandising Nursery Stock?" with Clarence Vanderbrook, C. W. Stuart & Co., Newark, N. Y., moderator.

8 p. m.—Plant Forum: "Azaleas, Rhododendrons, Hollies and Other Broad-Leaved Evergreens for the Northeast," with Dr. Henry T. Skinner, director, United States National Arboretum, Washington, D. C., moderator, and Frederick P. Lee, Washington, D. C.; Dr. C. G. Bowers, Binghamton, N. Y.; J. W. Oliver, Scarsdale, N. Y., and Russell Harmon, East Stroudsburg, Pa., panel members.

JANUARY 7

9 a. m.—Meeting, region I, A. A. N.
9:45 a. m.—Meeting, Eastern Regional



We at
"TOPS IN ROSES"
wish
 ALL OUR NURSERY FRIENDS
a
 VERY MERRY CHRISTMAS

Ollie and Verona Weeks

Bob Reed

Florence Estabrook

and

Shaddo

The Christmas story, unchanged and dear,
On carollers' voices rings loud and clear,
Proclaiming anew year after year
Simple truths we need to hear.

In Heaven resounds the glad refrain,
New-born Babe, as King, still reigns!

Rejoice, the humble Wise Men cry.

On bed of straw the Babe doth lie

Shine bright, you star in distant sky—

Eternal hope of men on earth—

Symbol of the Blessed Saviour's birth.

HAVE THE GREAT NEW ROSE—PINK PEACE



Give your customers what they're looking for! The finest NEW roses . . . the popular BIG-NAME roses! Pink Peace is already making garden page headlines in national magazines and big city newspapers. The result for you is an instant demand for this great C-P introduction. Read about this sure-fire seller and other outstanding, recent C-P introductions. It's the first step to profits!

PINK PEACE. Brand-NEW! Big, luscious, solid pink beauty with everything people want in a rose . . . color, plenty of huge blooms, fragrance, amazing vigor, rich foliage. It's the sensation of 1959!

AND ALSO THESE FINE NEW PATENTED ROSES

WHITE KNIGHT . . . the All-America winner for 1958. Finest white hybrid tea ever developed!

SUNLIGHT . . . Bright, golden-yellow—best to come along in years and just what the gardener wants.

TORCH SONG . . . NEW this fall! Terrific appeal in this smoke-and-flame kind of red, red rose!

CONFIDENCE . . . Big peach and pink favorite—a famous name stand-by in millions of gardens.

LADY ELGIN . . . apricot and orange sensation of 1957 that's getting more and more popular every season.

LOVE SONG . . . Finest bicolor ever produced! Watermelon-pink with bright yellow reverse! Tremendous!

ORDER FROM YOUR GROWER NOW OR WRITE

THE CONARD-PYLE CO. WEST GROVE 220 PENNA.
GROWERS OF WORLD-FAMOUS STAR ROSES

ILEX CONVEXA

One of the largest blocks of hardy, northern-grown Ilex. Heavy, well-sheared plants with exceptionally good color. Prices are each per 100 (25 or more). Write for special quotation on large quantities.

18 to 24 ins.	\$3.00
24 to 30 ins.	3.75
30 to 36 ins.	5.50
3 to 3½ ft.	6.50

ANGELICA NURSERIES

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Mohnton, Pa.

NORTHERN-COLLECTED

Hemlocks, Ferns, Wild Flowers
Trees, Shrubs

ISAAC LANGLEY WILLIAMS
EXETER, N. H.

AZALEAS AND HEDGE PLANTS

Splendid stock.

Write for Price List.

DIAMOND STATE NURSERIES
MILFORD, DEL.

Nurserymen's Association, including treasurer's and secretary's reports and nomination and election of officers.

10:30 a. m.—Meeting, National Landscape Nurserymen's Association, with John Eisler, chairman, region 1, N. L. N. A., presiding:

11 a. m.—"The History of Garden Art," by Ralph E. Griswold, landscape architect.

12:30 p. m.—Lunch, with presentation of 1959 A. A. N. industrial landscaping awards and Don Rose, columnist, Philadelphia Bulletin, guest speaker.

2:15 p. m. (N. L. N. A. meeting continued)—"What I Expect from the Landscape Nurseryman"—panel discussion, with three landscape customers of the New York metropolitan area as panel members.

2:45 p. m.—"My Postconvention Tour of Mexico" (illustrated), by W. A. Morten, landscape contractor, Coraopolis, Pa.

3:30 p. m.—Adjournment.

INDIANA ARBORISTS

A short course will be presented Friday, January 9, as part of the mid-winter conference of the Indiana Arborists' Association, to be held January 7 to 9 at the Purdue Memorial Center, West Lafayette, Ind. The complete schedule of events follows:

JANUARY 7

10 a.m.—Registration.

1:15 p.m.—Welcome address, by Dr. E. C. Stevenson, head, department of horticulture, Purdue University.

1:30 p.m.—"Inhibition of Tree Growth To Reduce Trimming Costs," by Hyland R. Johns, Asplundh Tree Expert Co., Jenkintown, Pa.

2:15 p.m.—Functional report on the Illinois tree expert law:

"Administration and Policing," by Phil Hutchison, department of registration and education, state of Illinois, Springfield, Ill.

"Examinations and Performance," by Dr. J. C. Carter, Illinois Natural History Survey, Urbana, and Noel B. Wysock, chief forester, Cook county forest preserve, River Forest, Ill.

3:45 p.m.—"Tree Expert Laws in Various States," by Dr. Paul Tilford, executive secretary, National Arborist Association, Wooster, O.

7:30 p.m.—"Chemical Brush Control on Distribution Systems," by Jack Sternberg, forester, Consumers Power Co., Jackson, Mich.

8:30 p.m.—"Tree Pruning in Relation to Street Lighting," by James Blythe, Indianapolis Power & Light Co., Indianapolis, Ind.

JANUARY 8

9 a.m.—"Your Safety in Trees" (a film).

9:45 a.m.—"Personal Factors in Accident Prevention," by Glenn Griffin, National Safety Council, Chicago, Ill.

10:45 a.m.—"Suggestions To Increase Production and Maintain Safety in Line-Clearing Operations: A Survey Report," by Kenneth Flaig, Indiana & Michigan Electric Co., Fort Wayne, Ind.

1:30 p.m.—"Progress Report on Control of Dutch Elm Disease," by Dr. J. C. Carter.

2:30 p.m.—"Tree Moving and Related Problems," by Francis Hudson, Davey Tree Expert Co., Greenwood, Ind.

3:30 p.m.—"Report on the Spread of

BUILD BUSINESS WITH THESE NEW ITEMS!

FLOWERING QUINCE

Glowing Ember (Trade-Mark)

We are proud to be the introducers of this superior strain of flowering quince. It took many years of observation and selection to come up with this upright-growing shrub of uniform habit, with brilliant red flowers. It is grown from cuttings, of course, in order to perpetuate these desirable characteristics. 10 ft.

	Per 10	Per 100	Per 1000
3 to 3½ ft.	\$7.50	\$85.00	\$600.00
2 to 3 ft.	6.00	55.00	500.00
18 to 24 ins.	5.00	45.00	400.00
12 to 18 ins.	3.50	30.00	.....

REDGOLD HONEYSUCKLE (Trade-Mark)

Lonicera tellmanniana

Extremely long flowers that are very striking. The buds are golden, flushed with red. They open into huge, intensely golden trumpets. The foliage is very clean, light green above, blue-green below. In windy weather the varying colors caused by the difference in shades create unusual and interesting effects. Blooms May-June.

	Per 10	Per 100	Per 1000
2-yr., No. 1	\$5.50	\$50.00	\$450.00
2-yr., medium	4.50	40.00	350.00

ALMOND

Hall's Hardy Fruiting. Can be grown wherever peach trees will grow. Rapid-growing, bears young. Large, fine-quality nuts. Attractive bloom, deep green foliage.

	Per 10	Per 100
5 to 6 ft.	\$13.50	\$125.00
4 to 5 ft.	12.00	110.00
3 to 4 ft.	9.50	90.00

CARYOPTERIS AZURE

A NEW Blue Spiraea introduced by the U.S.D.A. It has deeper blue flowers and darker foliage than Blue Mist and grows into a more compact shrub. In our opinion this is the finest caryopteris on the market.

	Per 10	Per 100
No. 1	\$5.50	\$50.00
Medium	4.50	40.00

DEUTZIA CORYMBOSA

(Himalaya Deutzia)

New, from the Himalaya region of Asia. An attractive shrub with great masses of large drooping panicles of double white flowers in early summer. Highly ornamental. 6 to 8 ft.

	Per 10	Per 100
2 to 3 ft.	\$6.50	\$60.00
18 to 24 ins.	5.50	50.00

CHRISTINE BUISMAN ELM

New elm—resistant to elm diseases, immune to phloem necrosis; highly resistant to Dutch elm disease. (Statements based on U.S.D.A. research.)

- Grows rapidly
- Straight, smooth trunk
- No crotches or forks
- Heavy caliper for height
- Well-branched
- Heavy foliage
- Symmetrical top
- Transplants easily

	Per 10	Per 100
1½ to 1½-in. cal.	\$55.00	\$500.00
8 to 10 ft.	45.00	400.00
6 to 8 ft.	32.00	300.00
5 to 6 ft.	23.50	225.00

EUONYMUS DuPONT

(Trade-Mark)

A selection of the small-leaved strain of Euonymus patens. Characterized by small dark green, clean-cut leaves closely set on the stems. Extremely bushy for its height. Vigorous roots, very fibrous making it easy to transplant. Fairly rapid grower, shears well.

	Per 10	Per 100
15 to 18 ins., B&B	\$25.50	\$250.00
10 to 15 ins., B.R.	6.00	50.00
6 to 10 ins., B.R.	4.50	35.00

AMPELOPSIS ACONITIFOLIA

(Monkshood Vine)

Not new, but not well known, although it deserves to be. A vining plant with beautiful cut-leaved foliage and orange berries in autumn. From China.

	Per 10	Per 100
2-yr., No. 1	\$5.00	\$45.00
2-yr., medium	4.00	35.00

CUT-LEAVED CHINESE LILAC

New! A form of the Rothomagensis or Chinese Lilac with leaves that are deeply cut giving them a graceful lacy appearance. Otherwise it is the same as the Chinese, having rich reddish-purple blossoms in the spring and again in the fall. A splendid novelty. Supply limited.

	Per 10	Per 100
2 to 3 ft.	\$7.00	\$65.00
18 to 24 ins.	6.00	55.00

To the multitude of our
friends and customers

Merry Christmas

and a Prosperous
New Year!

WILLIS NURSERY CO.

"Your Wholesale Nurserymen"
Ottawa, Kan.

PINE — SPRUCE — FIR

Seedlings and Transplants

	Per 100	Per 1000
Norway Spruce (<i>Picea excelsa</i>)		
(2-0), 2-yr., S., 2 to 3 ins.	\$ 7.00	\$18.00
(2-0), 2-yr., S., 3 to 5 ins.	8.00	22.00
(1-2), 3-yr., T., 5 to 10 ins.	10.00	50.00
(2-2), 4-yr., T., 6 to 12 ins.	12.00	60.00
(2-2), 4-yr., T., 8 to 14 ins.	16.00	90.00
Scotch Pine (<i>Pinus sylvestris</i>)		
(2-0), 2-yr., S., 2 to 4 ins.	4.00	12.50
(2-0), 2-yr., S., 3 to 6 ins.	5.00	14.00
(2-0), 2-yr., S., 4 to 8 ins.	6.00	20.00
(3-0), 3-yr., S., 8 to 15 ins.	8.00	25.00
(2-0), 4-yr., T., 6 to 10 ins.	10.00	50.00
(2-2), 4-yr., T., 8 to 14 ins.	15.00	60.00
Blue Spruce (<i>Picea pungens</i>) (Colorado Blue Spruce)		
(2-0), 2-yr., S., 2 to 3 ins.	4.00	20.00
(2-0), 2-yr., S., 3 to 4 ins.	6.00	25.00
(3-0), 3-yr., S., 3 to 4 ins.	8.00	30.00
(3-0), 3-yr., S., 4 to 6 ins.	10.00	40.00
Austrian Pine (<i>Pinus nigra</i>)		
(2-0), 2-yr., S., 2 to 4 ins.	4.00	20.00
(2-0), 2-yr., S., 3 to 6 ins.	6.00	25.00
(2-2), 4-yr., T., 5 to 10 ins.	15.00	70.00
White Spruce (<i>Picea alba</i>), excellent blue-gray color		
(2-0), 2-yr., S., 3 to 6 ins.	5.00	25.00
(3-0), 3-yr., S., 4 to 8 ins.	6.00	30.00
(3-0), 3-yr., S., 5 to 10 ins.	10.00	45.00
Concolor Fir (<i>Abies concolor</i>)		
(2-0), 2-yr., S., 2 to 3 ins.	8.00	...
(2-0), 3-yr., S., 3 to 6 ins.	10.00	...
(3-0), 3-yr., S., 4 to 8 ins.	15.00	...
Douglas Fir		
(2-0), 2-yr., S., 2 to 3 ins.	6.00	25.00
(2-0), 3-yr., S., 3 to 5 ins.	8.00	35.00

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SHRUB OAK, N. Y.

Oak Wilt in Indiana," by Dr. Ralph J. Green, associate professor of plant pathology, Purdue University.

7:30 p.m.—"What's Your Problem?"
—panel question and answer session, with Paul Ulman, assistant state entomologist, as moderator, and conference speakers and Purdue specialists as panel members.

JANUARY 9

SHORT COURSE

9 a.m.—"Effects of Construction and Weather Damage vs. Effects of Disease and Insect Damage," by Dr. Donald L. Schuder, Purdue, and Dr. J. C. Carter.

10 a.m.—"Tree Identification Refresher," by Profs. H. W. Gilbert, N. H. Marty and A. T. Leiser, Purdue.

11 a.m.—"Our Work—in Pictures," by Rex Wilkinson, Muncie Tree Surgery Corp., and John Duling, Duling Tree Expert Co., both of Muncie, Ind.

12 noon—Lunch.

1:30 p.m.—"Shade Tree Gall Insects and Their Control," by Dr. Donald L. Schuder.

2:30 p.m.—"Tree-Trimming Crews and Highway Safety," by Sgt. Charles Alenduff, safety education officer, district 3, state police department, West Lafayette, Ind.

3:30 p.m.—"Test of Reflexes," by G. Parker Gee, safety engineer, O'Rourke & Co., Fort Wayne, Ind.

RALEIGH PROGRAM GIVEN

The complete program for the 22nd annual short course of the North Carolina Nurserymen's Association has been announced. The sessions will be held in the College Union building on the campus of the North Carolina State College, Raleigh, with college staff members taking a prominent part. A detailed schedule, January 4 to 6, follows:

JANUARY 4

4 to 6 p.m.—Registration.
6 p.m.—Informal buffet dinner, at the College Union, with the North Carolina Association of Nurserymen as host.
7 p.m.—Trade fair opens in College Union ballroom.
8 p.m.—"Nurseries Around the World," by Charles Tennent.

JANUARY 5

9 a.m. — Opening session in College Union theater: Greetings from Dr. D. W. Colvard, dean, school of agriculture, N. C. State College, and Knox Porter, president, North Carolina Association of Nurserymen.

9:30 a.m.—"Soils and Fertilizers and Their Relationships," by E. R. Collins, in charge of agronomy extension, N. C. State College.

10:30 a.m. — "Soil Testing," by Dr. Gene Camphreth, in charge of soil testing, N. C. department of agriculture.

11 a.m.—"Fertilizing Container and Field Nursery Stock," by Henry Orr, University of Auburn.

12 noon—Lunch.

1:30 p.m.—Business meeting.

3:15 p.m. — "Merchandising," by Mr. Lancaster, Coleman Nursery, Inc., Portsmouth, Va.

6 p.m.—Banquet: Speaker, John Piland, district agent, agricultural extension service, N. C. State College.

JANUARY 6

9 a.m.—"Fundamentals of Pruning," by

FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

	Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate
Azalea mollis (Chinese Azalea)			Hex rotundifolia (Round- leaved Japanese Holly)			Pieris japonica (Japanese Andromeda)		
Flame shades, mixed			6 to 8 ins., 1-yr., T.	\$0.35	\$0.32	6 to 8 ins., 2-yr., T.	\$0.35	\$0.32
6 to 8 ins., 2-yr., T.	\$0.22	\$0.18	8 to 10 ins., 2-yr., T. ....	.38	.35	8 to 10 ins., 3-yr., T. ....	.45	.40
8 to 10 ins., 2-yr., T. ....	.35	.30	10 to 12 ins., 2-yr., T. ....	.48	.45	Pinus mugo (Dwarf Mugho Pine)		
8 to 12 ins., 3-yr., T. ....	.45	.40	12 to 18 ins., 3-yr., T. ....	.60	.50	3 to 5 ins., 2-yr., T. ....	.20	.18
Azalea Ghent pontica , pastel shades			12 to 18 ins., 5-yr., T.	1.00	.90	5 to 8 ins., 4-yr., T. ....	.25	.20
Very hardy.						Pinus nigra (Austrian Pine)		
2 to 4 ins., 2-yr., T. ....	.30	.28	Juniperus Andorra (Purple Andorra Juniper)			5 to 10 ins., 4-yr., T. ....	.15	.10
4 to 6 ins., 3-yr., T. ....	.35	.32	6 to 8 ins., 1-yr., T. ....	.30	.28	8 to 12 ins., 3-yr., T. ....	.22	.18
6 to 10 ins., 3-yr., T. ....	.45	.40	8 to 10 ins., 2-yr., T. ....	.45	.40	10 to 15 ins., 5-yr., T. ....	.28	.22
Azalea mucronulatum , lavender			12 to 15 ins., 4-yr., T. ....	.60	.55	Pyracantha coccinea (Lalandi (Firethorn))		
4 to 8 ins., 2-yr., T. ....	.35	.32	Juniperus canadensis aurea (Golden Canadian Juniper), spreader			6 to 8 ins., 2-yr., T. ....	.32	.30
8 to 10 ins., 3-yr., T. ....	.45	.40	4 to 6 ins., 1-yr., T. ....	.25	.22	8 to 12 ins., 2-yr., T. ....	.40	.38
10 to 15 ins., 3-yr., T. ....	.55	.50	4 to 6 ins., 2-yr., T. ....	.35	.32	Rhododendron Hybrid , various colors		
Buxus sempervirens welleri (Weller's Hardy Boxwood)			8 to 10 ins., 3-yr., T. ....	.45	.40	Seedling-grown from red plants, very hardy.		
4 to 6 ins., 2-yr., T. ....	.28	.25	Juniperus glauca hetzi (Hetz Juniper)			3 to 5 ins., 2-yr., T. ....	.45	.40
6 to 8 ins., 2-yr., T. ....	.35	.32	8 to 12 ins., 2-yr., T. ....	.35	.30	5 to 8 ins., 4-yr., T. ....	.55	.50
8 to 10 ins., 3-yr., T. ....	.45	.40	10 to 12 ins., 3-yr., T. ....	.40	.35	8 to 10 ins., 4-yr., T. ....	.85	.80
10 to 15 ins., 3-yr., T. ....	.55	.50	12 to 15 ins., 3-yr., T. ....	.55	.48	10 to 15 ins., 4-yr., T.	1.00	.90
Chamaecyparis filifera aurea (Golden Thread Cypress)			12 to 18 ins., 3-yr., T. ....	.65	.60	Rhododendron catawbiense (Catawba Rhododendron)		
8 to 10 ins., 3-yr., T. ....	.45	.40	Juniperus hibernica fastigiata (Compact Irish Juniper)			2 to 4 ins., 2-yr., T. ....	.35	.32
Chamaecyparis lawsoniana alumi Columnar, blue.			8 to 10 ins., 2-yr., T. ....	.35	.30	4 to 8 ins., 3-yr., T. ....	.45	.40
8 to 10 ins., 2-yr., T. ....	.30	.28	10 to 12 ins., 2-yr., T. ....	.38	.35	8 to 12 ins., 3-yr., T. ....	.50	.48
10 to 12 ins., 3-yr., T. ....	.45	.40	12 to 18 ins., 3-yr., T. ....	.55	.50	Rhododendron maxima		
12 to 18 ins., 3-yr., T. ....	.55	.50	Juniperus horizontalis glauca Blue-green spreader. Very low.			2 to 4 ins., 2-yr., T. ....	.35	.32
Chamaecyparis plumosa aurea (Golden Plum Cypress)			6 to 8 ins., 2-yr., T. ....	.35	.32	4 to 8 ins., 3-yr., T. ....	.45	.40
6 to 8 ins., 2-yr., T. ....	.35	.30	8 to 10 ins., 2-yr., T. ....	.40	.38	8 to 12 ins., 3-yr., T. ....	.50	.48
8 to 10 ins., 3-yr., T. ....	.40	.35	10 to 15 ins., 3-yr., T. ....	.50	.45	Sophora japonica (Japanese Pagoda Tree)		
10 to 15 ins., 3-yr., T. ....	.50	.45	Juniperus pfitzeriana			4 to 8 ins., 2-yr., T. ....	.25	.20
Chamaecyparis squarrosa , mossy, green foliage			8 to 10 ins., 2-yr., T. ....	.45	.40	10 to 15 ins., 3-yr., T. ....	.35	.32
8 to 12 ins., 3-yr., T. ....	.35	.30	10 to 15 ins., 3-yr., T. ....	.50	.45	Taxus capitata (Upright Japanese Yew), seed-grown		
Cotoneaster horizontalis (Rock Spray)			Juniperus pfitzeriana compacta Nelson variety blue spreader.			4 to 6 ins., 2-yr., T. ....	.35	.30
4 to 6 ins., 3-yr., T. ....	.25	.22	6 to 8 ins., 3-yr., T. ....	.35	.30	6 to 8 ins., 4-yr., T. ....	.40	.35
6 to 10 ins., 3-yr., T. ....	.38	.32	8 to 10 ins., 4-yr., T. ....	.45	.40	8 to 10 ins., 4-yr., T. ....	.40	.35
Eunymus fortunei coloratus Procumbent broad-leaved ever- green creeper.			10 to 12 ins., 3-yr., T. ....	.55	.50	10 to 15 ins., 4-yr., T. ....	.55	.50
8 to 12 ins., 2-yr., T. ....	.25	.22	12 to 15 ins., 4-yr., T. ....	.65	.60	Taxus cuspidata (Spreading Yew)		
12 to 18 ins., 3-yr., T. ....	.35	.32	Juniperus pfitzeriana aurea (Golden Pfitzer Juniper)			6 to 8 ins., 2-yr., T. ....	.38	.35
Eunymus fortunei erectus (Big-leaved Winter Creeper)			8 to 10 ins., 2-yr., T. ....	.40	.38	8 to 10 ins., 3-yr., T. ....	.45	.40
10 to 15 ins., 3-yr., T. ....	.35	.30	10 to 12 ins., 2-yr., T. ....	.45	.40	10 to 15 ins., 3-yr., T. ....	.55	.50
12 to 18 ins., 3-yr., T. ....	.45	.42	12 to 15 ins., 3-yr., T. ....	.55	.50	Taxus media hicksii (Hicks' Yew)		
Eunymus radicans vegetus (Evergreen Winter Creeper)			Juniperus squamata meyeri (Meyer's Juniper), blue-green			6 to 8 ins., 2-yr., T. ....	.35	.32
Orange berries.			6 to 8 ins., 2-yr., T. ....	.40	.38	8 to 10 ins., 2-yr., T. ....	.45	.40
8 to 10 ins., 2-yr., T. ....	.35	.32	8 to 12 ins., 3-yr., T. ....	.50	.45	10 to 15 ins., 3-yr., T. ....	.55	.50
10 to 15 ins., 3-yr., T. ....	.45	.40	Juniperus stricta (Spiny Greek Juniper)			Thuja occidentalis douglasii aurea (Geo. Peabody Arborvitae)		
12 to 18 ins., 4-yr., T. ....	.50	.48	6 to 8 ins., 2-yr., T. ....	.40	.38	Golden pyramid.		
Eunymus alatus (Winged Euonymus)			8 to 10 ins., 2-yr., T. ....	.45	.40	6 to 8 ins., 2-yr., T. ....	.35	.32
4 to 6 ins., 3-yr., S. ....	.18	.15	10 to 12 ins., 3-yr., T. ....	.55	.50	8 to 10 ins., 3-yr., T. ....	.45	.40
6 to 10 ins., 3-yr., S. ....	.25	.22	Koeleruteria paniculata (Golden-Rain Tree)			10 to 12 ins., 3-yr., T. ....	.45	.40
10 to 15 ins., 3-yr., S. ....	.38	.32	5 to 12 ins., 3-yr., field, T. ....	.22	.18	12 to 15 ins., 3-yr., T. ....	.55	.50
Hex crenata (Japanese Holly), pyramidal			12 to 24 ins., 4-yr., field, T. ....	.35	.32	15 to 24 ins., 4-yr., T. ....	.65	.60
6 to 8 ins., 1-yr., T. ....	.25	.20	Leucothoe catesbaei (Drooping Leucothoe)			Thuja occidentalis globosa (Woodward Globe Arborvitae)		
8 to 10 ins., 2-yr., T. ....	.35	.32	8 to 10 ins., 3-yr., T. ....	.35	.30	6 to 8 ins., 1-yr., T. ....	.28	.25
10 to 15 ins., 3-yr., T. ....	.48	.45	10 to 12 ins., 3-yr., T. ....	.45	.40	8 to 10 ins., 2-yr., T. ....	.40	.35
12 to 18 ins., 3-yr., T. ....	.65	.60	12 to 15 ins., 3-yr., T. ....	.55	.50	10 to 12 ins., 3-yr., T. ....	.48	.45
Hex crenata convexa (bullata) (Box-leaved Holly)			Liquidambar styraciflua (Sweet Gum)			12 to 15 ins., 3-yr., T. ....	.55	.50
6 to 8 ins., 1-yr., T. ....	.25	.22	2-yr., S., bed run ....	.10	.08	Thuja occidentalis pyramidalis		
8 to 10 ins., 2-yr., T. ....	.38	.35	10 to 15 ins., 2-yr., S. ....	.12	.10	10 to 12 ins., 2-yr., T. ....	.45	.40
10 to 12 ins., 2-yr., T. ....	.48	.45	12 to 15 ins., 3-yr., T. ....	.20	.18	12 to 15 ins., 3-yr., T. ....	.55	.50
12 to 15 ins., 3-yr., T. ....	.65	.60	18 to 30 ins., 3-yr., T. ....	.25	.22	15 to 18 ins., 4-yr., T. ....	.65	.60
12 to 18 ins., 5-yr., field-row spaced	1.00	.90	Picea pungens (Colorado Blue Spruce)			18 to 24 ins., 4-yr., T. ....	.70	.65
Hex crenata hetzi An improved form of convexa.			4 to 6 ins., 4-yr., T. ....	.20	.18	Tsuga canadensis (Hemlock)		
6 to 8 ins., 2-yr., T. ....	.30	.28	6 to 8 ins., 4-yr., T. ....	.30	.28	6 to 8 ins., 3-yr., T. ....	.35	.32
8 to 10 ins., 2-yr., T. ....	.40	.38	Thuja occidentalis elegantissima lutea Foliage golden tipped over dark green.			8 to 10 ins., 4-yr., T. ....	.40	.38
10 to 15 ins., 3-yr., T. ....	.55	.50	6 to 8 ins., 2-yr., T. ....	.40	.38	10 to 15 ins., 4-yr., T. ....	.55	.50
Hex crenata helleri (Heller's Dwarf Holly)			8 to 10 ins., 2-yr., T. ....	.45	.40	Viburnum opulus nanum (Dwarf Bush Cranberry)		
3 to 6 ins., 2-yr., T. ....	.35	.32	12 to 15 ins., 3-yr., T. ....	.55	.50	2-yr., field, T. ....	.25	.22
4 to 8 ins., 3-yr., T.45	.40				4 to 8 ins., 3-yr., T.35	.32

Lining-out Stock. 25 at the 100 Rate. 300 at the 1000 Rate.

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M. E. Gardner, horticulture department, N. C. State College.

9:30 a.m.—"Nursery and Maintenance Pruning," by Henry Orr.

10:45 a.m.—"Pruning Roses," by Glenn Randall, horticulture department, N. C. State College.

11:15 a.m.—"Standards and Grades in Nursery Stock," by Dr. Thomas Cannon, horticulture department, N. C. State College.

12 noon—Lunch.

1:30 p.m.—"Planting our Highways," by Frank Brandt, landscape engineer, highway department.

2 p.m.—"How Nurserymen Can Help the Landscape Architects—How Landscape Architects Can Help the Nurserymen"—Discussion.

2:30 p.m.—Questions and answers on various subjects, by John H. Harris, N. C. State College.

3 p.m.—"Mist Propagation"—Panel discussion by J. B. Gartner, Amos Fowler and Paul Gilmore.

4 p.m.—Adjournment.

IOWA SCHEDULE

Announcement of the following schedule of activities has been made for the 38th annual convention of the Iowa Nurserymen's Association, to be held at the Hotel Kirkwood, Des Moines, January 8 to 10:

JANUARY 8

9 a.m.—Registration.

1 p.m.—Call to order, by President Robert W. Ferguson, Robinson & Parnham, Des Moines.

Officer and committee reports.

2 p.m.—"The Nurseryman's Part in the Interstate Highway Program," by Harold D. Dolling, roadside improvement engineer, Iowa state highway commission.

2:30 p.m.—Annual nurserymen's clinic, group discussion with Dean Platt, past president, as moderator. Topics will be "Competitive Bidding on Public Jobs," "Landscaping on a Contract Basis versus the Time and Material Basis" and "Unfair Competition."

4 p.m.—A. A. N. chapter 10—Business Meeting. Election of delegates to A. A. N. convention.

7 p.m.—Annual Slide Session with Arnold Webster, Kuehn's Nursery, Cedar Falls, moderator.

A. A. N. film: "Basic Techniques of Home Landscaping."

JANUARY 9

8:45 a.m.—A. A. N. Activities report: "National Plans," by Robert Hobbs, C. M. Hobbs & Sons, Bridgeport, Ind., president; "Merchandising Our Product," by H. P. Quadland, New York, N. Y., director of information; "Local Plans in Region IV," by Vincent K. Bailey, J. V. Bailey Nurseries, St. Paul, Minn., region IV director.

9:30 a.m.—"Application of Atomic Energy to Nursery Problems"—Dr. Ruble Langston, associate professor of horticulture, Purdue University.

11 a.m.—"Refrigerated Nursery Storages"—A research project, by Dr. John P. Mahlstedt, Iowa State College, Ames.

11:45 a.m.—Luncheon, in the Garden room.

1 p.m.—"Euonymus—A Versatile Broadleaf," by W. E. Cunningham, president, Cunningham Gardens, Waldron, Ind.

3:30 p.m.—"New Rose Developments,"

NEED CONIFERS?

RUGGED—TOUGH—TENACIOUS—CONIFERS?

— FOR LASTING BEAUTY THROUGH THE YEARS —

<i>Abies balsamea</i> (Balsam Fir)	Per 100	Per 1000
Symmetrical pyramidal conifer.		
*3 to 6 ins., not transplanted	\$ 7.00	\$ 63.00

DID YOU KNOW?

That Oregon has the largest number of native fir species in the world.

<i>Abies concolor</i> (White Fir)		
Symmetrical growth and beautiful bluish foliage.		
*6 to 9 ins., once transplanted	13.00	117.00
<i>Abies grandis</i> (Great Silver Fir)		
Needles dark green above, silvery beneath.		
*6 to 12 ins., not transplanted	10.00	90.00
<i>Abies veitchii</i> (Veitch Fir)		
One of the most beautiful.		
*1 to 3 ins., not transplanted	5.00	45.00
<i>Juniperus squamata meyeri</i> (Meyer Juniper)		
Dense, heavy, plumelike branches, deep blue.		
*3 to 6 ins., once transplanted	17.00	153.00
<i>Picea engelmanni</i> (Engelmann Spruce)		
Narrow pyramid, bluish-green to steel-blue foliage.		
*12 to 15 ins., twice transplanted, B.R.	22.00	198.00
<i>Picea excelsa</i> (Norway Spruce)		
Defies the blast in cold, exposed situations.		
*12 to 15 ins., once transplanted	18.00	162.00
<i>Picea excelsa mucronata</i> (Dwarf Norway Spruce)		
Dwarf, dense, rounded pyramid. One of the best.		
*3 to 6 ins., once transplanted	18.00	162.00
<i>Picea excelsa nidiformis</i> (Nest Spruce)		
Wonderful, dwarf, dark green, flattened globe.		
*3 to 6 ins., once transplanted	18.00	162.00
<i>Picea excelsa sherwoodii</i> (Sherwood Multnomah Spruce)		
Beautiful, dwarf, irregular globe. New.		
*6 to 9 ins., twice transplanted	30.00	270.00
<i>Picea glauca conica</i> (Dwarf Alberta Spruce)		
Close, compact, narrow pyramid. In great demand.		
*1 to 3 ins., once transplanted	14.00	126.00
<i>Picea glauca densata</i> (Black Hills Spruce)		
A handsome, hardy tree.		
*6 to 9 ins., once transplanted	13.00	117.00
<i>Picea mariana</i> (Black Spruce)		
Dark green, slender conifer.		
*3 to 6 ins., not transplanted	7.00	63.00
<i>Picea pungens</i> (Colorado Spruce) (Green)		
One of the most desirable of the spruces.		
12 to 15 ins., once transplanted, B.R.	18.00	162.00
<i>Picea rubens</i> (Red Spruce)		
Handsome tree from Canada.		
*3 to 6 ins., not transplanted	7.00	63.00
<i>Pinus contorta</i> (Shore or Lodgepole Pine)		
Small dark green tree.		
*6 to 9 ins., not transplanted	7.00	63.00

DID YOU KNOW?

That the pines are most important of conifers.

<i>Pinus edulis</i> (Nut or Pinyon Pine)		
Picturesque. Young growth intensely blue.		
*3 to 6 ins., not transplanted	7.00	63.00

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25 at 100 rate 250 at 1000 rate

<i>Pinus jeffreyi</i> (Jeffrey's Pine)	Per 100	Per 1000
A rather open picturesque, spire-shaped conifer.		
12 to 15 ins., once transplanted, B.R.	\$20.00	\$180.00
<i>Pinus mughus compacta</i> (Mugho Pine)		
A dense, stout, dwarf evergreen.		
*1 to 3 ins., not transplanted	5.00	45.00
<i>Pinus patula</i> (Jelecote Pine)		
Lovely and unique.		
*6 to 12 ins., not transplanted	10.00	90.00
<i>Pseudotsuga douglasii</i> (Gray Douglas Fir)		
Colorado silver-gray strain, a truly stately tree.		
*6 to 12 ins., not transplanted	10.00	90.00
<i>Pseudotsuga douglasii</i> (Green Douglas Fir)		
Foliage bright, shiny green.		
*12 to 18 ins., not transplanted	12.00	108.00

DID YOU KNOW?

That Sequoia was named after a Cherokee Indian, Sequoyah.

<i>Sequoia sempervirens</i> (Redwood)		
Large-growing conifer.		
*6 to 12 ins., not transplanted	10.00	90.00
<i>Taxus baccata</i> (English Yew)		
This is the old favorite of English gardens.		
*6 to 9 ins., once transplanted	17.00	153.00
<i>Taxus baccata fastigiata aurea</i> (Golden Irish Yew)		
Golden form of the well-known Irish yew.		
*9 to 12 ins., twice transplanted	27.00	243.00
<i>Taxus cuspidata</i> (Japanese Yew)		
One of the most satisfactory of dwarf evergreens.		
*9 to 12 ins., twice transplanted	21.00	189.00
<i>Taxus cuspidata nana</i> (Dwarf Japanese Yew)		
Slow growing, exceptionally hardy.		
*3 to 6 ins., once transplanted	17.00	153.00
<i>Taxus media hicksii</i> (Hicks' Yew)		
Hardy, irregular column.		
*3 to 6 ins., once transplanted	17.00	153.00
<i>Thuja occidentalis</i> (American Arborvitae)		
Makes fine low hedges or taller windbreaks.		
*12 to 18 ins., once transplanted	18.00	162.00
<i>Thuja occidentalis pyramidalis</i> (American Pyramidal Arborvitae)		
Dense, beautiful column.		
*3 to 6 ins., once transplanted	16.00	144.00
<i>Thuja orientalis beverleyensis</i> (Beverly Hills Arborvitae)		
Bright golden the year around.		
*3 to 6 ins., once transplanted	17.00	153.00
<i>Thuja orientalis elegantissima</i> (Yellow Column Oriental Arborvitae)		
Spectacular, dazzling column.		
*3 to 6 ins., once transplanted	17.00	153.00
<i>Thuja plicata</i> (Giant Arborvitae)		
Symmetrical pyramid.		
*6 to 9 ins., not transplanted	10.00	90.00
<i>Tsuga canadensis</i> (Canada Hemlock)		
Conifer of graceful, pleasing habit of growth.		
*15 to 18 ins., once transplanted	29.00	261.00
<i>Tsuga mertensiana</i> (Mountain Hemlock)		
Magnificent conifer native to rugged areas.		
*9 to 12 ins., twice transplanted	24.00	216.00



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Grafts are normally ready for shipment after April 15. Since there is a possibility of damage by late spring frost, kindly give a shipping date when you feel it is safe to plant without frost injury.

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<i>Acer palmatum dissectum atropurpureum</i>	7.50	65.00
<i>Acer rubrum columnare</i>	7.50	65.00
<i>Acer saccharum monumentale</i>	7.50	65.00
<i>Quercus atlantica glauca</i>	7.50	65.00
<i>Chamaecyparis obtusa compacta</i>	6.00	50.00
<i>Chamaecyparis obtusa gracilis</i>	6.00	50.00
<i>Cornus florida alba plena</i>	6.50	55.00
<i>Cornus florida pendula</i>	7.50	65.00
<i>Cornus florida rubra</i>	6.50	55.00
<i>Cornus florida rubra Prosser</i>	7.50	65.00
<i>Cornus kousa chinensis</i>	6.50	55.00
<i>Fagus sylvatica riversi</i>	6.50	55.00
<i>Hamamelis mollis</i>	6.50	55.00
<i>Ilex opaca femina</i>	7.50	65.00
<i>Ardip Hookstraw Miss Helen</i>	7.50	65.00
<i>Ilex opaca mascula</i>	7.50	65.00
<i>Juniperus chinensis columnaris glauca</i>	6.50	55.00
<i>Juniperus chinensis columnaris viridis</i>	6.50	55.00
<i>Juniperus chinensis keteleeri</i>	6.50	55.00
<i>Juniperus chinensis neoborealis</i>	6.50	55.00
<i>Juniperus chinensis sargentii</i>	6.50	55.00
<i>Juniperus chinensis sargentii glauca</i>	6.50	55.00
<i>Juniperus sabinna vonchroon</i>	6.50	55.00
<i>Juniperus scopulorum Blue Haven</i>	6.50	55.00
<i>Juniperus squamata meyeri</i>	6.50	55.00
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Blue Mist		Domotoi	
No. 1	25c	No. 1	40c
DEUTZIA		Nikke	
Gracilis		No. 1	40c
18 to 24 ins.	37c	Medium	35c
15 to 18 ins.	32c	PHILADELPHUS	
Gracilis rosea		Aureus	
2 to 3 ft.	40c	18 to 24 ins.	50c
18 to 24 ins.	35c	12 to 15 ins.	30c
Lemoinei		9 to 12 ins.	25c
18 to 24 ins.	32c	POTENTILLA	
15 to 18 ins.	27c	Gold Drop	
EUONYMUS		15 to 18 ins.	30c
Alatus compactus		12 to 15 ins.	25c
12 to 15 ins.	50c	Kathryn Dykes	
Potens		18 to 24 ins.	35c
18 to 24 ins.	50c	15 to 18 ins.	30c
Vegetus		RHUS	
12 to 15 ins.	60c	Cottinus	
FORSYTHIA		3 to 4 ft.	50c
Lynwood Gold		18 to 24 ins.	35c
18 to 24 ins.	30c	SPIRAEA	
Spectabilis		Japonica coccinea	
3 to 4 ft.	35c	12 to 15 ins.	30c
2 to 3 ft.	25c	Vanhouttei	
18 to 24 ins.	20c	18 to 24 ins.	22c
Spring Glory		VIBURNUM	
3 to 4 ft.	30c	Tomentosum plicatum	
2 to 3 ft.	25c	18 to 24 ins.	60c
18 to 24 ins.	20c	Tomentosum	
		2 to 3 ft.	30c

Send for complete list of varieties and sizes and our list of berry plants and grapevines.

CONGDON'S WHOLESALE NURSERY
North Collins, N. Y.

by Dr. G. J. Buck, Iowa State College.

4:30 p.m.—Mount Arbor Round-up—Social hour in the Garden room.

6:30 p.m.—Annual banquet; speaker, Don Soliday, station KRNT-TV, Des Moines, with films of his recent European tour including the Brussels World's Fair in Belgium; Paris, Poland and Russia.

JANUARY 10

9 a.m.—"Progress in Combating Dutch Elm Disease," by Dr. Harold McNabb, Iowa State College.

9:45 a.m.—Annual business meeting. Election of officers.

NEW YORK ARBORISTS

The New York State Arborists' Association will hold its annual school and meeting in Statler Hall, Ithaca, N. Y., January 11 to 13. The school is sponsored jointly by the association and the New York state college of agriculture, a unit of the State University of New York at Cornell. Meetings are open to all persons interested in arboriculture.

A feature of the 1959 program will be a roundup of experiences by communities in scouting local elm trees carrying Dutch elm disease and subsequent community action toward establishment of a program of control through efficient sanitation measures in removal and destruction of recently dead wood and of dying trees. Members of the New York State Arborists' Association are inviting representatives of their communities to attend both the session on Dutch elm disease program implementation and also the Arbor day roundup. These sessions will be held January 12.

The program begins January 11 with an informal dinner and discussion session. There will also be a meeting of the board of directors at 8 p. m. in Statler Hall.

Elm Disease Control

January 12 will start with an inspection of a special furnace used by some New York state arborists for disposing of Dutch elm wood. Formal sessions begin at 10 a. m. with a briefing on the present status of Dutch elm disease in New York state by Dr. Donald S. Welch, department of plant pathology, Cornell University. Dr. Welch will stress the control measures presently applicable.

Members of the department of agriculture and markets bureau of plant industry will review present possibilities and past community efforts in Dutch elm disease programs. The 1958 programs and experiences will be cited by Charles E. Schmaltz, Men's Garden Club of Rochester, and by Dr. Howard Miller, school of forestry, Syracuse University. The data will be summed up by Kenneth Painter, Syracuse, first vice-presi-

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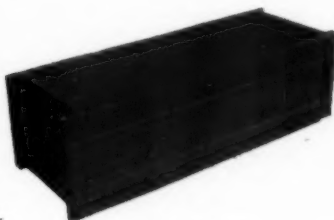
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No.	Hgt.	Dia.	Price
5008	8 ins.	10½ ins.	\$2.20
5010	10 ins.	11 ins.	2.30
5012	12 ins.	13 ins.	2.50
5015	15 ins.	17 ins.	2.95
5017	17 ins.	19½ ins.	3.75



**PATIO
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No.	Height	Length	Price
818	8½ ins.	18 ins.	\$2.10
824	8½ ins.	24 ins.	2.40
836	8½ ins.	36 ins.	3.00
848	8½ ins.	48 ins.	3.60



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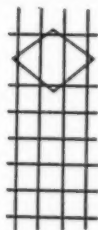
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No.	Height	Width	Price
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5007	16x16 ins.	2.00

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Less than 1000 add 30%.

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Cuspidata, 6 to 8 ins., T.....20c each
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All plants branched and very good root system.

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dent, New York State Arborists' Association.

Arbor Day Activities

The concluding session for January 12 will be a summary of Arbor day activities in New York state. Basil Jackson, president, N. Y. S. A. A., will report on 1958 activities of the group in cooperating with the New York State Nurserymen's Association in a series of tree-planting ceremonies in the Albany area.

Mr. and Mrs. Homer J. Bliss will report Arbor day celebration in the Penfield - Pittsford - Rochester area through appropriate public relations with the local department of education and service clubs, particularly the Lakeshore Kiwanis Club. Freeman Parr, arborist, will report on Arbor day activities on Long Island.

Mrs. Charles Treman, chairman of the Arbor day activities for the Ithaca Garden Club, will exhibit news releases and photographs of programs in seven Ithaca schools. These tree-planting ceremonies were in cooperation with John Ewanick, General Tree Service, Ithaca, a member of the N. Y. S. A. A. George Spader will report for the Men's Garden Club of America.

Wilbur Wright, head, Rochester parks department, will talk on "Modern Trees for Modern Needs in City Park and Home Planting." The wealth of plant materials used in public plantings at Rochester and the fortunate selection of tree types by Mr. Slavin and others in the parks department are of particular interest and importance to those interested in tree-planting projects in New York.

Pictures of trees by Prof. William Harlow, of the school of forestry, will be featured at the annual banquet.

Tree Care

The final session, January 13, will be devoted to professional tree care. Dr. Neilson, department of entomology, Cornell University, will report on dormant sprays for beetle control as a phase of the Dutch elm disease program. Robert Lewis, Lewis Tree Experts, Syracuse, will review his experience with stump-removing equipment in a take-down program.

John Ewanick will report on "Experiences with Multiple Units in Tree-moving Equipment." Ted Collins, tree and landscape specialist, Rochester, will talk on public responses to modern complete tree service.

The concluding question and answer session will cover new developments in vegetation control, Japanese beetle control, gas injury and 1958

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on pages 24 and 25.



NURSERY STOCK

Per 100 Per 1000

Red-leaved Barberry		
2-yr., S., 9 to 12 ins..	\$ 6.50	\$50.00
2-yr., S., 12 to 18 ins..	10.00	75.00
Row run, 9 to 18 ins..	7.50	60.00
Cornus florida (White Dogwood)		
1-yr., S., budding size.	6.00	50.00
1-yr., S., below budding size	4.50	35.00

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Malus, Rhododendron, Ilex,
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ORIENTAL MAGNOLIAS

ALL OUR ORIENTAL MAGNOLIAS SHOULD BE SHIPPED OUT BEFORE FEBRUARY FIRST. They come into flower and growth buds soon after and would be harder to transplant. If you have some place like a bulb cellar where you can keep them above freezing, yet cold enough so they won't start new growth, you can hold them fine. 38 to 45 degrees is about perfect.

MAGNOLIA ALEXANDRINA. Strong, upright grower. Large flowers, dark purplish-pink outside, and white inside. A very nice Magnolia.

MAGNOLIA RUSTICA RUBRA. Large flowers of dark red-dish-purple. Very fast grower and excellent variety. Later bloomer than Soulangiana.

MAGNOLIA SOULANGEANA. Very hardy, fast-growing and one of the most sought-after plants for use all over the United States.

MAGNOLIA SOULANGEANA NIGRA. Dark purple. A late bloomer and not quite so hardy as Soulangiana.

Prices of Above Oriental Magnolias		Per 100	Per 1000
8 to 12 ins., 2-yr., liners, B.R.	.....	\$35.00	\$300.00
12 to 18 ins., 2-yr., liners, B.R.	.....	40.00	350.00
18 to 24 ins., 2-yr., liners, B.R.	.....	45.00	400.00

		Per 10	Per 100
2 to 3 ft., field-grown, budded, B. R.	.....	\$14.00	\$125.00
2 to 4 ft., field-grown, budded, B. R.	.....	17.50	160.00
2 to 3 ft., field-grown, budded, B&B.	.....	17.50	160.00
3 to 4 ft., field-grown, budded, B&B.	.....	22.50	200.00
4 to 5 ft., field-grown, budded, B&B.	.....	30.00	250.00
5 to 6 ft., field-grown, budded, B&B.	.....	40.00	350.00

MAGNOLIA STELLATA (Star Magnolia). Dwarf growing variety, very hardy. Heavy producer of pinkish waterlily-type flowers.

Prices of Magnolia stellata		Per 100	Per 1000
6 to 8 ins., 2-yr., liners, B.R.	.....	\$30.00	\$250.00
8 to 12 ins., 2-yr., liners, B.R.	.....	35.00	300.00
12 to 15 ins., 2-yr., liners, B.R.	.....	40.00	350.00

CONTAINER-GROWN STOCK

Our container-grown nursery stock is the very best quality produced in the south. We have given very careful attention to soil mixture, feeding, watering and general care. Being able to offer this wonderful stock is our reward. We are very proud of this container-grown stock and justly so. Early ordering will help us and will assure you a much better selection.

FATSIEDERA (Tree Ivy). Large, foliage dark green. Very decorative plant.

GARDENIA FORTUNEI. Blooms heavily in late spring and has some flowers all summer. Very popular.

GARDENIA MYSTERY. Very good grower, larger flower than any other and hardy.

GARDENIA RADICANS. Very popular dwarf-growing Gardenia. Blooms so profusely that hardly a leaf can be seen when in full bloom.

HYPERICUM HIDCOTE. Very hardy prostrate variety. Large, waxy, golden flowers practically all summer.

ILEX CORNUTA BURFORDI. Beautiful, showy Chinese Holly. Our plants are all grown from berry-bearing stock.

ILEX CRENATA BULLATA (Convexa). Dwarf-growing holly with glossy, convex foliage. Very nice, hardy plant.

ILEX CRENATA BUXIFOLIA. Real nice new holly with round dark green foliage.

ILEX CRENATA ROTUNDIFOLIA. Large green foliage, very hardy and probably the most popular crenata today.

ILEX GLABRA. Fast-growing, upright Ilex. Nice for use in borders and hedges.

ILEX OPACA EAST PALATKA. Fast-growing, upright holly with light green foliage.

ILEX VOMITORIA (Schilling's Dwarf). Very nice Yaupon introduced recently and proven very popular.

JUNIPERUS CHINENSIS BLUE VASE. Very handsome vase-shaped Juniper that grows more upright than most. Very popular.

JUNIPERUS CHINENSIS PFITZERIANA. Still one of the very best.

JUNIPERUS DEPRESSA PLUMOSA (Andorra Juniper). Nice spreading Juniper, bright green in growing season and bronze in winter.

LIGUSTRUM LUCIDUM COMPACTUM (Wax Privet). Very useful dark green broad-leaved evergreen. We have an excellent strain of this variety.

MAGNOLIA GRANDIFLORA (Bull Bay). One of the most popular shade trees of the south; growing also up the eastern shore.

OSMANTHUS FRAGRANS (Sweet Olive). Very prolific bloomer and is very fragrant.

PINES (Slash). Fastest-growing pine of the south. Makes a nice shade for lawns.

All the above stock has been grown in one-gallon containers for one year, or longer.

Prices of Above Container-Grown Stock Per 100 Per 1000
One-gallon, EACH 60c 55c
250 plants or more of one variety and size take the 1000 rate.
For full truckloads, we can arrange for very economical transportation. Available trucks can haul from 4200 to 4500 one-gallon container-grown plants—door-to-door delivery—at a very low cost.

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in this section. Whether it be Azaleas, Ilex, Magnolias or any other nursery stock we grow, we produce the best. We urge you to consider us when in need of any stock we list.

	Per 100	Per 1000
BUXUS HARLANDI.		
4 to 6 ins.	\$10.00	\$ 90.00
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
BUXUS JAPONICA		
4 to 6 ins.	10.00	90.00
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
BUXUS SEMPERVIRENS		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00
CAMELLIA SASANQUA		
4 to 6 ins.	15.00	140.00
6 to 8 ins.	17.00	150.00
DAINTY PINK (our new seedling)		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
DAYDREAM		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
JEAN MAY		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
TEXAS STAR		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
12 to 18 ins.	20.00	180.00
CHERRY LAUREL		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
CLEYERA JAPONICA		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
CORNUS FLORIDA (White Dogwood)		
8 to 12 ins.	9.00	80.00
12 to 18 ins.	10.00	90.00
18 to 24 ins.	12.00	110.00
FATSIEDERA (Tree Ivy)		
8 to 12 ins.	12.00	110.00
12 to 18 ins.	15.00	140.00
GARDENIA FORTUNEI		
8 to 12 ins.	10.00	90.00
12 to 18 ins.	12.00	110.00

	Per 100	Per 1000
GARDENIA MYSTERY	\$10.00	\$ 90.00
12 to 18 ins.	12.00	110.00
GARDENIA RADICANS		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
ILEX CORNUTA BURFORDI		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
ILEX CRENATA BULLATA		
4 to 6 ins.	15.00	140.00
6 to 8 ins.	17.00	150.00
ILEX CRENATA BUXIFOLIA		
4 to 6 ins.	15.00	140.00
6 to 8 ins.	17.00	150.00
ILEX CRENATA DIVARICATA		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
ILEX CRENATA REPANDENS		
4 to 6 ins.	15.00	140.00
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
ILEX CRENATA ROTUNDIFOLIA		
4 to 6 ins.	10.00	90.00
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
10 to 12 ins., field-grown	35.00	300.00
12 to 15 ins., field-grown	40.00	350.00
* These field-grown plants are real heavy. They are grown in the nursery row and have been cut back with electric clippers many times. They are ideal for 3-gallon cans or can be used on small landscape jobs.		
ILEX GLABRA		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
ILEX OPACA FOSTERI		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
ILEX VOMITORIA (Schilling's Dwarf)		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00

	Per 100	Per 1000
JUNIPERUS CHINENSIS BLUE VASE		
4 to 6 ins.	\$12.00	\$110.00
6 to 8 ins.	15.00	140.00
JUNIPERUS CHINENSIS PFITZERIANA		
4 to 6 ins.	10.00	90.00
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
LIGUSTRUM LUCIDUM COMPACTUM		
8 to 12 ins.	12.00	110.00
12 to 18 ins.	15.00	140.00
LONICERA YUNNANENSIS (Low Honeyuckle)		
8 to 12 ins.	10.00	90.00
MAGNOLIA GRANDIFLORA (Bull Bay)		
4 to 6 ins.	10.00	90.00
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
12 to 18 ins.	17.00	150.00
18 to 24 ins.	20.00	180.00
NANDINA DOMESTICA		
8 to 12 ins.	12.00	110.00
12 to 18 ins.	17.00	150.00
OSMANTHUS FRAGRANS (Sweet Olive)		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
PITTOSPORUM TOBIRA		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
PODOCARPUS SINENSIS (Jap Yew)		
6 to 8 ins.	10.00	90.00
8 to 12 ins.	12.00	110.00
RETINOSPORA ERICOIDES		
8 to 12 ins.	12.00	110.00
250 plants or more of one variety and size take the 1000 rate.		

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responses of trees to high rainfall. Further reports will be made by Dr. R. Hirt, school of forestry, Syracuse University, on container-grown plants and girdling roots.

VIRGINIA SHORT COURSE

Sponsored by the extension service of the Virginia Polytechnic Institute, Blacksburg, Va., and the Northern Virginia Nurserymen's Association, the annual Virginia nurserymen's short course will be held January 6 to 8 at Fairfax, Va.

The first presentation listed on the program for the event is "Weed Control in Nursery and Home Grounds," by Dr. W. E. Chappel, plant physiologist, V. P. I. Two other talks scheduled for the day are "Improving Heavy, Poor Soil," by Dr. M. S. Anderson, United States Department of Agriculture, and "Mulching and Watering Plants," by Dr. W. P. Judkins, head of the horticulture department, V. P. I.

Sylvester G. March, propagator, United States National Arboretum, Washington, D. C., will speak Wednesday, January 7, on "Mist Propagation of Deciduous Plants," and Dr. J. H. Tinga, horticulturist at the institute, will discuss "Canned Stock." Later, C. R. Willey, state entomologist, and Dr. J. O. Rowell, entomologist, V. P. I., will speak on "Insect Problems." Concluding Wednesday's events will be a talk by R. H. Gruenhagen, plant pathologist, V. P. I., who will discuss "Plant Diseases."

Scheduled for Thursday, January 8, is a talk by Meade Palmer, landscape architect, Warrenton, Va., on "Landscape Design." Following this there will be a landscape tour.

MARYLAND ANNIVERSARY

Following is the program schedule for the annual meeting of the Maryland Nurserymen's Association at the Southern hotel, Baltimore, Md., January 14. Special events have been planned for this observance of the group's silver anniversary.

9 a.m.—Registration.

9:30 a.m.—Call to order. Reports of secretary and treasurer and committee appointments.

10 a.m.—President's remarks.

10:20 a.m.—"Basic Research Benefits the Nurserymen," by Dr. Frank P. Cullinan, associate director, crops research division, United States Department of Agriculture, Beltsville, Md.

11 a.m.—"Prelude to Plenty" (a film), shown by Joseph Spillman, American Cyanamid Co., New York, N. Y.

11:30 a.m.—"Extension Work for Urban Communities," by Dr. Paul Nystrom, director, agricultural extension county programs: Anne Arundel county, by J.



NOW a perennial pot that keeps its shape under all conditions. . . the secret is its metal bottom!

Cadwell & Jones, Inc., is proud to introduce to the trade—METAPOTS—a new idea in perennial pot construction.

Constructed of the finest materials obtainable, the perennial METAPOT holds its shape in any weather—in greenhouse, cold-frame or out-of-doors. The metal bottoms (an exclusive with METAPOTS) give increased strength, rigidity and durability. Solidly stapled sides prevent loss of plants during handling. METAPOTS facilitate the handling of nursery stocks for you, your customers and all who handle stock. Plants are always "ready-to-go"—eliminating digging and extra handling. No root exposure to sun or air—"METAPOTTED" plants are practically sure to thrive—enabling the dealer to safely guarantee complete satisfaction.

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Metapot Number	Height	Top Diameter	Bottom Diameter	Price Per Thousand	Quantity per Case
1	9½"	7"	5½"	85.00	200
2	5½"	5"	4"	57.50	200
3	6½"	6"	4½"	68.50	200
4	6½"	8"	7"	90.00	200
(Super) 5	12¾"	11"	8½"	300.00	50

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..... cases of @ \$.....
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We will send you a sample set of all five sizes of METAPOTS, shipped postpaid, for only \$1.00.

A freight allowance of \$1.00 per case may be deducted on METAPOTS #1, 2, 3 and 4 when remitting. A freight allowance of \$2.00 per 100 will be allowed on #5 SUPER METAPOTS. Prices F.O.B. Hartford, Conn.

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Edgar Ferrell, Jr.; Montgomery county, by David E. Kidd, and Prince George's county, by Clayton C. Werner.

12:15 p.m.—Luncheon.

Introduction of guests.

"Fifty Years with Maryland Nurserymen," by Dr. T. B. Symons.

"Our Silver Anniversary," by M. G. Coplen, Rock Creek Nursery, Rockville, Md.

Professional achievement award.

Silver anniversary awards.

2:15 p.m.—"Basic Technique of Home Landscaping" (a film).

2:45 p.m.—Maryland-West chapter, American Association of Nurserymen.

A report—Daniel S. Stoner, president; Paul S. Hoffman, secretary, and Thomas Adams, delegate to convention.

3:15 p.m.—Activities of the Maryland Nurserymen's Association during 1958: Committee reports.

3:45 p.m.—Business session and election of officers.

MASSACHUSETTS MEET

Members of the Massachusetts Tree Wardens' and Foresters' Association will meet for their 47th annual convention February 4 and 5. The convention will be held, as usual, at Horticultural Hall, 300 Massachusetts avenue, Boston, according to Henry W. Gilbertson, Waltham, program chairman.

MIDWEST TREE CHAPTER

February 18 to 20 are the dates selected for the winter meeting of the midwestern chapter of the National Shade Tree Conference. The group will convene at the Hotel LaSalle, Chicago, Ill., according to information released by Noel B. Wy-song, secretary.

SET MARYLAND DATE

Announcement has been made that the short course of the Maryland Nurserymen's Association will be held February 19 at the University of Maryland, College Park, Md. Dr. Lee J. Enright, of the department of horticulture at the college, is chairman of the event and in charge of the program.

WILLIAMSBURG PROGRAM

Of interest to landscape men especially is the program announced for the Williamsburg garden symposium, which will be held March 4 to 6 and March 11 to 13, at Williamsburg, Va. A guest speaker from England, David Sanders, well known orchid grower of Sussex, will address the group twice.

At the opening session, March 4, an illustrated lecture on the symposium theme, "Old World Plants in New World Settings," will be giv-

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1500 18 to 24 ins., 3-yr., T., B.R.	\$0.30	300 36 to 42 ins.	\$3.00
Berberis thunbergii atropurpurea		Taxus cuspidata	
1500 18 to 24 ins., 3-yr., T., B.R. ....	.40	800 18 to 24 ins.	3.50
Chamaecyparis plumosa aurea		Taxus cuspidata intermedia	
2000 15 to 18 ins.	1.50	1400 12 to 15 ins.	2.00
1000 18 to 24 ins.	2.00	1500 18 to 24 ins.	4.00
Chamaecyparis squarrosa veitchii		Taxus media brownii	
500 15 to 18 ins.	1.50	350 18 to 24 ins.	3.50
500 18 to 24 ins.	2.00	Taxus media hatfieldii	
Juniperus communis depressa		1000 15 to 18 ins.	3.00
350 15 to 18 ins.	2.00	3000 24 to 30 ins.	4.00
Juniperus excelsa stricta		1000 30 to 36 ins.	5.50
1500 18 to 24 ins.	1.50	Taxus media hicksii	
1000 30 to 36 ins.	2.50	1000 15 to 18 ins.	2.75
Juniperus glauca hetzli		1000 18 to 24 ins.	3.00
2400 12 to 15 ins.	1.50	800 24 to 30 ins.	4.00
3200 15 to 18 ins.	1.75	Taxus media kelseyi	
2000 18 to 24 ins.	2.00	500 10 to 12 ins.	2.00
2000 24 to 30 ins.	2.50	1000 12 to 15 ins.	3.00
Juniperus glauca hetzli, staked		Thuja occidentalis	
2100 30 to 36 ins.	2.75	500 36 to 42 ins.	2.75
		Thuja occidentalis elegantissima	Each
		1400 24 to 30 ins.	\$2.00
		1000 30 to 36 ins.	2.50
		Thuja occidentalis Hetz's Winter Green	
		2000 30 to 36 ins.	2.00
		2000 36 to 42 ins.	2.75
		Thuja occidentalis pyramidalis	
		3500 36 to 42 ins.	2.50
		2100 42 to 48 ins.	3.00
		Thuja occidentalis woodwardii	
		2000 15 to 18 ins.	1.50
		2500 18 to 24 ins.	2.00
		Thuja orientalis aurea nana	
		(Berckmans)	
		1000 18 to 24 ins.	2.00

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Rooted cuttings	\$90.00 per 1000
2-yr., 2 1/2-in. rose pot	\$25.00 per 100
Chamaecyparis plumosa aurea		Taxus
Juniperus		Thuja

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2-Year-Old, Field-Grown Plants

Place Your Order Now for Fall or Spring Delivery

WHOLESALE PRICE LIST — FALL, 1958 and SPRING, 1959

TERMS and Conditions of Sales: Cash with Order — Packing at Cost. Please Order in Multiples of 10 Plants of a Variety Only!

RETAIL	1 to 9	10 to 19	20 to 99	100 to 249
Price, each				
\$2.00	\$1.90	\$1.65	\$1.50	\$1.40
2.75	1.75	1.50	1.37 1/2	1.30
2.50	1.60	1.40	1.25	1.20
2.25	1.40	1.25	1.12 1/2	1.05
2.00	1.25	1.10	1.00	.95
1.85	1.20	1.05	.92 1/2	.85

No. 1 1/2 Grade—20% Less Than Above Prices

HYBRID TEAS

Bianche Mallerin (Plant Pat. No. 594) ..	\$2.00
Centennial (Plant Pat. No. 1384) ..	1.85
Charles Mallerin (Plant Pat. No. 933) ..	2.50

HYBRID TEAS (Cont'd)

Dr. Debat (Plant Pat. No. 961) ..	\$2.25
Golden Masterpiece (Pl. Pat. No. 1284) ..	3.00
Good News (Plant Pat. No. 426) ..	2.00
Grandmere Jenny (Plant Pat. 1149) ..	2.00
Konrad Adenauer (Plant Pat. No. 1452) ..	2.50
Lady Elgin (Plant Pat. No. 1469) ..	2.50
Love Song (Plant Pat. No. 1360) ..	2.50
Peace (Plant Pat. No. 591) ..	2.50
Peaceful (Plant Pat. No. 1599) ..	2.50
Pennsylvania (Plant Pat. No. 936) ..	2.00
Pink Peace (P.A.F.) ..	3.00
Pres. Eisenhower (Plant Pat. No. 1217) ..	2.25
Rubalyat (Plant Pat. No. 758) ..	1.85
Suzon Lotthe (Plant Pat. No. 934) ..	2.00
Torch Song (P.A.F.) ..	2.50
White Knight (Plant Pat. No. 1359) ..	3.00

FLORIBUNDAS

Amy Vanderbilt (Plant Pat. No. 1585) ..	\$2.50
Baby Blauze (Plant Pat. No. 1362) ..	2.00
Fashion (Plant Pat. No. 789) ..	2.00
Fusilier (P.A.F.) ..	2.50
Gold Cup (Plant Pat. No. 1683) ..	2.50
Golden Fleece (Plant Pat. No. 1812) ..	2.50
Jimmy Cricket (Plant Pat. No. 1346) ..	2.00
Ma Perkins (Plant Pat. No. 1143) ..	2.00
Spartan (Plant Pat. No. 1357) ..	2.75
Sumatra (Plant Pat. No. 1572) ..	2.00
Vogue (Plant Pat. No. 926) ..	2.00
White Bouquet (Plant Pat. No. 1416) ..	2.50

CLIMBERS

Gladiator (Plant Pat. No. 1624) ..	2.75
Spectacular (Plant Pat. No. 1416) ..	2.50

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en by M. Walter Pesman, landscape architect of Denver, Colo. Alden R. Eaton, director of landscape construction and maintenance for Colonial Williamsburg, will later discuss "The Care of Colonial Plant Materials."

Peggy Sullivan, landscape architect of Los Angeles, Calif., will speak March 5 on the "Gardens of the World." Ralph E. Griswold, landscape architect at Pittsburgh, Pa., and senior research fellow at Dumbarton Oaks, has selected "Masterpieces of Planting in the Old World" as his topic for an illustrated talk March 12.

In addition to the lectures mentioned, the program will include other illustrated talks as well as informal discussions on garden design, plant materials and maintenance problems. There will be specially conducted tours of the famed colonial gardens of Williamsburg, and several private homes in the area will be open for the first time to symposium members.

LONG ISLAND SHOW

The 13th annual spring garden show sponsored by the Long Island Nurserymen's Association is now scheduled to take place at the Island Garden Arena, West Hempstead, N. Y., February 21 to March 1. This year's theme, "New Fashions in Gardens," is the most modern approach in garden show planning. President Peter Costich, Hicks Nurseries, Westbury, has announced that Mark Eaton, Glen Head, will be show manager.

REMODELING AIDS SALES

Remodeling the display room of the Rocknoll Nursery, Morrow, O., has greatly increased its cash-and-carry business this past spring and fall, reports Belden C. Saur, manager.

The changes have made it easier for customers to shop in this country garden market, for every item listed in the nursery's mail-order catalog is now in a bin available for

easy selection by the local customer.

The stock in the bins is enclosed in polyethylene sacks, but each plant is also mossed. Each of the sacks containing perennial plants and small evergreens is labeled with a number, the name of the plant and the price; shrubs, flowering trees and fruit trees are labeled with colored tags. On each bin is a colored picture of the variety contained. There are over 800 items offered in this display room.

The remodeling has been more than paid off in increased sales, and the nursery intends to build another greenhouse this winter so that it can better handle its annual and foliage plant business. The sales department is headed by Joe Fahrnbach, and Louis B. Saur, son of Belden C. Saur, is in charge of the field department.

NEW address of the Lovelock Nursery is 607 Lincoln avenue, Pontiac, Ill. The firm was formerly located at 202 East Second street.

PRICES AND PROFITS

Comments on Business Management in the Nursery

By John J. Pinney

PRICE REDUCTION FACTORS

At a recent panel discussion on garden center operation the question was asked "Is it good for business to cut prices in order to dispose of surplus or slow-moving items of merchandise?" The ensuing discussion showed that there was considerable disagreement on this subject. One of the objections raised was that cutting prices often resulted in losses, if it was necessary to sell below cost. Another criticism of the practice was that it caused some customers to delay buying until there was a cut-price sale.

Both objections are legitimate, but there are sound reasons why it is good business to clean out slow merchandise, even at a loss. Every business must have a certain amount of operating capital. Capital is needed to pay wages and salaries and to meet a multitude of overhead expenses; however primarily it is needed to buy or produce the stock in trade that is the source of income of the business. In the case of the garden center or nursery, the major investment of operating capital is in nursery stock, with a less portion in allied merchandise. As long as the merchandise is in the bins or on the shelves, the capital that it represents is tied up and not producing any income. That is the reason shrewd businessmen strive to turn their stock of merchandise as often as they can.

Selling Recovers Capital

Every time a piece of merchandise is sold, it results in recovery of capital that can be used for the purchase of more merchandise. Assuming that most of it is sold at a profit, it is easy to see that the more times a nurseryman can turn his capital, the greater will be his profit.

At best, the turnover (number of times capital can be used in a given period) is slow in the nursery business compared, for example, to the food business. A good food merchant can sell his merchandise and recover his capital many times in the course of a year. The operator of a retail nursery does exceedingly well if he can turn his capital twice a year.

Now to get back to our original theme: Price cutting to dispose of

slow-selling merchandise. Unless a nurseryman has unusual capital resources, he has to turn his capital just as often as he possibly can to earn a reasonable profit on his investment. Whenever he finds himself burdened with merchandise that for one reason or another does not sell well, he should bear in mind that the capital invested in it is being tied up and made nonproductive. It makes no difference what the reason may be for its slow sale, whether it be overstocking, a falling off in demand for that particular item or lower prices of a competitor. The result is the same—inactive capital.

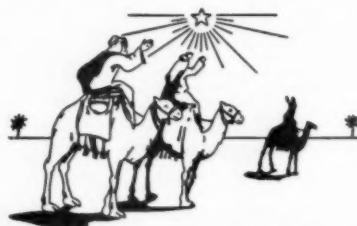
It can be seen readily that if a par-

ticular piece of merchandise is never sold, it represents a loss of capital that can be made up only by earning greater profits on the remaining merchandise. That is a trick not many can turn. On the other hand, anything that can be realized from the immobile merchandise represents just that much more recovered capital that can be invested in merchandise that will sell.

Problem of All Businesses

This is by no means a circumstance that is peculiar to the nursery business. Practically every business is faced with the same problem of slow-selling merchandise. It is not at all uncommon in food stores to see whole tables or racks of canned goods, bakery products and produce being offered at low cleanup prices. The merchant is doing this not only to make room on his shelves, but to recover part of his capital.

Nearly every issue of the big city newspapers announces cut-price sales



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15 to 18 ins.	\$1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.50
30 to 36 ins.	3.50
3 to 3½ ft.	4.50

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Roses — Shrubs — Fruit Trees — Ornamentals — Vines — Hedge
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of clothing, appliances, furniture, floor coverings, television sets and shoes. These sales are a standard procedure with nearly all successful merchants to clean out old or slow-moving stocks, thereby recovering capital to reinvest in new merchandise. Some customers may wait for these sales before buying, but they constitute a small percentage of the clientele.

Some merchants make a practice of stocking up with other popular merchandise, if they are able to buy at favorable prices, and offer it in connection with the cut-price sale of their slow-moving merchandise. Thus they take full advantage of the increased traffic resulting from the sale promotion. There is no good reason why these practices cannot be followed to good advantage by retail nurserymen and garden center operators. There are, in fact, many who are doing it successfully.

A word of caution is now needed, however, for it is questionable whether it is ethical to offer inferior merchandise at cut prices in order to dispose of it. This is particularly true of nursery stock, which the average person is not qualified to judge. If the plants offered for sale at cut prices are inferior quality and not likely to give good results, the purchaser should be informed of the risk that he is taking.

Neither is it good practice to cut prices all along the line. It would indeed be a poor selection of merchandise in which everything had to be offered at reduced prices to sell it. Over-all price cutting is never a satisfactory substitute for good merchandising.

PALM NAMED DEAN

Dr. Charles E. Palm, noted entomologist, will succeed Dr. W. I. Myers as dean of the state university's college of agriculture, Cornell University, Ithaca, N. Y., effective July 1, 1959. Dr. Myers is retiring after 16 years as dean and 45 years on the faculty of the state college.

Now director of the state university agriculture experiment station and research director for the colleges of agriculture and home economics, Dr. Palm is the former head of the department of entomology and limnology of the college of agriculture.

A native of Austin, Tex., Dr. Palm grew up on a fruit farm in northwest Arkansas and was graduated with honors from the University of Arkansas in 1931. He received his Ph.D. from the college of agriculture at Cornell University in 1935.

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Northern-grown, hardy azaleas—well-budded, sheared, heavy stock, excellent foliage—over 200,000 for fall and spring delivery. (All B&B)

Azalea Gable

Louise Gable, double pink	
Rose Bud, double pink	
Rose Greeley, white	Each
6 ins.	\$0.75
8 ins.	1.00
10 ins.	1.25
12 ins.	1.50
15 ins.	2.50
18 ins.	3.50
24 ins.	6.50

Azalea Kurume

Addy Wery, deep vermillion	
6 ins. ....	.75
8 ins.	1.00
10 ins.	1.25
12 ins.	1.50
15 ins.	2.50
18 ins.	3.50

Amoena, purple-red

Apple Blossom, shell-pink

Coral Bells, pink

Drybrink, light pink

Favorite, deep rosy-pink

Hinodegiri, very dark red

Hino-Crimson, crimson

Maxwell, red

Orange Beauty, orange

Polaris, double white

Snow, white

6 ins. ....	.50
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
(Hinodegiri only)	
30 ins.	6.00
36 ins.	7.50

Our azalea beds are treated for shipment outside Japanese beetle zone.

Azalea Knaempferi—hardest

of all azaleas

Carmen, large, rose-colored

Fedora, pink

Louise, red

Othello, brick-red

Salmon Beauty, salmon-colored

8 ins.	\$0.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
30 ins.	6.00
36 ins.	7.50

Azalea Vuykiana

Beethoven, mauve,

waved petals

Johann Strauss, single rose,

blotched

Ledifolia Alba, white

Lilacina, fragrant, lilac-colored

Mollis, pink, yellow, orange

6 ins. ....	.50
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00

Rooted Cuttings ready November 1, \$50.00 per 1000.

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A many-petaled pink rose with outstanding lustrous foliage. This vigorous bush is one of the best pink roses. Suggested retail, \$2.50.

Each	Each	Each	Each
1 to 9	10 to 19	20 to 99	100 to 249
\$1.60	\$1.40	\$1.25	\$1.20

Each 250 and up, \$1.10

ORDER THESE ROSES FROM ANY OF THE FOLLOWING NURSERIES:

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Rt. 2, Grand Haven, Mich.

COVER ILLUSTRATION**Magnolia Salicifolia**

Often called the willow-leaved magnolia because its leaves are narrower and more willowlike than others in the genus, *Magnolia salicifolia* was imported from Japan about 1892 and is one of our earliest-blooming species. It is also known as the anise magnolia, this common name referring to the aniselike aroma of flowers and crushed foliage, which is quite different from the verbenalike perfume so noticeable in the flowers and foliage of many other magnolia species used in American landscape plantings.

The flowers of *Magnolia salicifolia* appear in late April to early May

Flowers of *Magnolia Salicifolia*

and are borne on the slender branches of the small tree, about 25 feet tall, in cultivation under usual conditions, although specimens have been known to exceed 30 feet when ideally situated. The leaves are narrowly elliptic to oblong-lanceolate; three to five inches long on slightly glaucous branchlets; acuminate and broadly wedge-shaped at the base; light green above, with veins in about 12 pairs; glaucescent, and slightly covered with close-lying soft, short hairs beneath. The flowers are on short smooth stalks, four and one-half inches across, often purple at the base on the outside, but usually almost completely white and highly fragrant.

While the species type matures to a lightly branched, rather slender tree, a variety, *M. s. fastigiata*, has a definitely fastigiate growth habit and appears as a densely, though lightly,

Peach**Hydrangea P. G.****Hydrangea P. G. (Tree Form)****Ornamental Trees****Grapevines, 1-yr. and 2-yr.****Thorne Brewster****WILLOWBEND NURSERY****PERRY, O.****NORTHERN-GROWN STOCK****Evergreen Liners****Bleeding Hearts****Ornamental Shrubs****Fruit Trees****French Lilacs**

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See page 37, September 1 issue of American Nurseryman, for complete fall list or write:

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Center St. Perry, Ohio

SHERMAN'S LANDSCAPE SHRUBS

	Per 10	Per 100		Per 10	Per 100
Almond, Pink, 18 to 24 ins.	\$ 4.50	\$40.00	Hydrangea, P. G., 18 to 24 ins.	\$ 5.00	\$ 45.00
Almond, Pink, 2 to 3 ft.	5.50	50.00	Hydrangea, P. G., 2 to 3 ft.	6.00	55.00
Alpine Currant (Ribes alpinum)			Hypericum aureum, 18 to 24 ins.	3.50	50.00
12 to 15 ins.	5.00	45.00	Hypericum aureum, 15 to 18 ins.	4.50	40.00
15 to 18 ins.	6.50	60.00	Lilac, Purple, 18 to 24 ins.	4.50	40.00
18 to 24 ins.	7.50	70.00	Lilac, Purple, 2 to 3 ft.	3.50	50.00
24 to 30 ins.	10.00	90.00	Lilac, White, 2 to 3 ft.	3.50	50.00
Barberry, Red, 15 to 18 ins.	5.00	45.00	Lilac, French (Named), 2 to 3 ft.	8.50	80.00
Barberry, Red, 18 to 24 ins.	6.00	55.00	Lilac, French (Named), 3 to 4 ft.	11.00	100.00
Barberry, Green, 15 to 18 ins.	3.50	30.00	Philadelphus aureus, 12 to 15 ins.	7.00	65.00
Barberry, Green, 18 to 24 ins.	4.50	40.00	Philadelphus aureus, 15 to 18 ins.	8.50	80.00
Blue Mist, No. 1	3.50	30.00	Philadelphus coronarius, 2 to 3 ft.	3.50	50.00
Cornus amomum, 3 to 4 ft.	6.50	60.00	Philadelphus grandiflorus, 3 to 4 ft.	6.50	60.00
Cornus elegantissima, 2 to 3 ft.	8.00	75.00	Philadelphus lemoinei, 2 to 3 ft.	5.50	50.00
Cornus elegantissima, 3 to 4 ft.	10.00	90.00	Philadelphus virginialis, 2 to 3 ft.	5.50	50.00
Cornus lutea, 3 to 4 ft.	6.50	60.00	Ninebark, Golden, 3 to 4 ft.	6.50	60.00
Cornus lutea, 4 to 5 ft.	8.00	75.00	Ninebark, Golden, 4 to 5 ft.	7.50	70.00
Cornus paniculata, 2 to 3 ft.	3.50	50.00	Ninebark, Dwarf (nanus), 2 to 3 ft.	4.50	40.00
Cornus sibirica, 3 to 4 ft.	6.50	60.00	Potentilla fruticosa, 15 to 18 ins.	4.50	40.00
Cornus stolonifera, 3 to 4 ft.	5.50	50.00	Potentilla fruticosa, 18 to 24 ins.	5.50	50.00
Cornus stolonifera, 4 to 5 ft.	6.50	60.00	Privet, Amur River North, 2 to 3 ft.	2.00	17.50
Cydonia japonica, 12 to 18 ins.	3.00	25.00	Privet, Amur River North, 3 to 4 ft.	2.25	20.00
Cydonia japonica, 18 to 24 ins.	4.00	37.50	Privet, California, 2 to 3 ft.	1.75	15.00
Elder, Golden, 3 to 4 ft.	6.50	60.00	Privet, Lodense, 12 to 15 ins.	3.00	25.00
Elder, Golden, 4 to 5 ft.	7.50	70.00	Redbud, 3 to 4 ft.	8.50	80.00
Forsythia intermedia, 2 to 3 ft.	4.50	40.00	Russian Olive, 3 to 4 ft.	6.50	60.00
Forsythia Lynwood Gold, 3 to 4 ft.	7.50	70.00	Spiraea Anthony Waterer, 15 to 18 ins.	3.00	45.00
Forsythia spectabilis, 3 to 4 ft.	6.50	60.00	Spiraea Anthony Waterer, 18 to 24 ins.	6.00	55.00
Forsythia Spring Glory, 3 to 4 ft.	6.50	60.00	Spiraea froebeli, 18 to 24 ins.	4.00	35.00
Honeysuckle, Clavey's Dwarf, 15 to 18 ins.	4.00	35.00	Spiraea thunbergi, 2 to 3 ft.	5.00	45.00
Honeysuckle, Clavey's Dwarf, 18 to 24 ins.	4.50	40.00	Spiraea vanhouttei, 2 to 3 ft.	4.00	35.00
Honeysuckle, morrowi, 3 to 4 ft.	5.50	50.00	Snowball (Common), 18 to 24 ins.	3.00	45.00
Honeysuckle, Red Tatarica, 3 to 4 ft.	5.50	50.00	Snowball (Common), 2 to 3 ft.	6.00	55.00
Honeysuckle, zabeli, 2 to 3 ft.	4.50	40.00	Willow, Blue Aretic, 2 to 3 ft.	4.50	40.00
Honeysuckle, zabeli, 3 to 4 ft.	5.50	50.00	Willow, French Pussy, 2 to 3 ft.	3.50	30.00
Hydrangea, A. G., 18 to 24 ins.	3.50	50.00			

We also grow a good line of shade trees, fruit trees, vines, evergreens and lining-out stock. Write for our new December wholesale trade list.

SHERMAN NURSERY CO.

Phone: Capital 8-1124

Charles City, Iowa

branched shrub of columnar contour. Seedlings of the species often incline toward upright-branching habit, and although the specimen pictured on the cover is a seedling, in branch structure and outline it completely answers the description of the fastigiata clone. In full leaf, *M. s. fastigiata* is an attractive plant of considerably more formal appearance than the type, and its columnar head of pleasing foliage can be used to advantage in many landscape designs, especially where hardihood is an important factor.

J. G.

U. S. D. A. 1958 SURVEY

In early January the crop reporting board of the United States Department of Agriculture will undertake the collection of information covering sales of selected classes of nursery products in 10 states during 1958. Grower reports will be collected by mail in California, Colorado, Florida, Illinois, Iowa, Michigan, Ohio, Oregon, New York and Texas. This is the same group of states selected for a 10-state survey a year ago. Continuous reporting in 10 states will enable the industry to appraise trends within states and, at the same time, give some indication of national trends based on a repre-

sentative geographic cross section of the industry.

The survey will continue to cover eight classes of nursery products—broad-leaved evergreens, conifers, deciduous shade trees, deciduous shrubs, rose plants, deciduous fruit and nut trees, grapevines and citrus and subtropical fruit trees. The 3,500 commercial producers in the 10 states will be asked to report information on 1958 sales and value of sales. Growers will also be asked to report their inventory of plants on hand in January, 1959. The estimates relate to commercial producers. A commercial producer is defined as one who grows and sells \$1,000 or more of nursery products within one year. Only commercial

producers having one or more of the eight classes of nursery products under survey will receive the questionnaire to be mailed by the U. S. D. A. in January.

The continued success of the program of crop reports for the nursery industry will be dependent upon the cooperation the department receives from each grower. Individual reports are confidential and will be used only in developing state totals. Prompt response from each grower will facilitate the completion of the report. Additional mailings of questionnaires to growers failing to answer the first request for the information will delay the completion of the survey and the publication of the results.

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Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.

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ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a
general assortment for
the best landscape plantings.

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Princeton, Illinois

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For Fall, 1958, Delivery

	Each 5 to 24	Each 25 to 100
BALSAM FIR , heavy plants		
3 to 3½ ft., B&B	\$3.50	\$3.25
3½ to 4 ft., B&B	4.00	
4 to 4½ ft., B&B	5.50	
4½ to 5 ft., B&B	6.50	
CANADIAN HEMLOCK , sheared, heavy plants		
2½ to 3 ft., B&B	4.25	
3 to 3½ ft., B&B	4.75	
3½ to 4 ft., B&B	5.25	
4 to 4½ ft., B&B	6.25	
CRATAEGUS CORDATA (Washington Thorn)		
3 to 4 ft., B&B	3.50	
4 to 5 ft., B&B	4.75	
CORNUS FLORIDA , white-flowering		
5 to 6 ft., heavy	6.50	
6 to 8 ft., heavy	7.50	
JUNIPERUS PFITZERIANA , spreading		
24 to 30-in. spread	3.50	3.25
30 to 36-in. spread	4.00	3.50
MAGNOLIA SOULANGEANA , pink		
3 to 4 ft., br.	4.50	4.00
MAGNOLIA NIGRA , dark purplish blooms		
3 to 4 ft., br.	4.50	4.00
TAXUS CUSPIDATA , spreading		
12 to 15-in. spread	3.50	3.25
15 to 18-in. spread	4.00	3.50
TAXUS HICKSI , columnar		
15 to 18-in. height	4.00	3.75
18 to 24-in. height	5.00	4.50

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for Spring, 1959

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We aim to put a "fire" under your fall sales by setting your sales center ablaze with color. These all-new, tried-and-tested varieties are the popular choice of the tradespeople, garden club members and friends who visited our test gardens this fall. Write now for the advance listing of this outstanding new mum strain.

THE JOSEPH F. MARTIN CO., INC.
P. O. Box 189 Painesville, O.

Legal Decisions

MUNICIPAL REGULATIONS

A New Jersey township ordinance required solicitors of orders for goods to register with the chief of police, furnish photographs of themselves and other identification and pay a fee of 75 cents for a registration certificate. Omar, a salesman employed by a New York firm to solicit orders for landscaping and fruit and plant materials in New Jersey, was convicted of selling without complying with the ordinance.

Was the conviction void on the grounds that the ordinance unreasonably interfered with interstate commerce?

The answer was, no, according to the decision by the Burlington, N. J., County court, law division, in the case of the Township of Mount Holly vs. Omar, 143 Atlantic Reporter 2d Series, 600. But that decision is subject to review and possible reversal by a higher court. However, it is quite possible that it will not be reversed, because of the small fee charged, especially if higher courts should concur in the trial court's conclusion that enforcement of the ordinance does not unduly burden interstate commerce.

Here is the gist of the court's reasoning:

"The authority of Congress in regulating interstate commerce is supreme, but its power does not prohibit incidental state regulation in the exercise of its police power in order to protect the safety and social well-being of its people, so long as the regulation does not burden or impede interstate commerce."

In the case of Real Silk Hosiery vs. City of Portland, 268 U.S. 325, 45 S.Ct. 525, 69 L.Ed. 982 (1925), it was decided that, when a salesperson takes orders for future delivery of merchandise in one state when in fact the merchandise is to be shipped from another state, such a transaction constitutes interstate commerce and a local regulation requiring a permit upon payment of \$1 and an application fee of \$12 payable quarterly was an undue burden upon interstate commerce.

In another case, the United States Supreme Court said, among other things, that, if there is any evil arising out of individual solicitation and sales work in connection with interstate commerce, "the power of correction does not rest with (the state) but with Congress, where the Con-

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Now is the time to be selling holly. We have two nice, well-berried specimens, right in front of the office and when customers for Christmas trees see them they want holly.

Right then and there is the time to give them a comfortable chair in the office where it is warm and take their order. Also suggest the possibility of a gift certificate.

We are in a position to set you up in the holly business and help you pep up your dead season. We can supply the specimen plants for your display grounds, sizes that you can sell right now and liners so that you can start growing your own.

Write us or see us in Chicago.



Liners of SMALL-GROWING MAPLES

(See article by Clarence E. Lewis in this issue describing these fine trees.)

	Each 100	Each 1000
Acer Campestre	rate	rate
4 to 6 ins.	3½c	2c
6 to 8 ins.	5c	3c
8 to 12 ins.	7c	5c
Acer Ginnala		
6 to 12 ins.	4c	2½c
12 to 18 ins.	6c	4c
18 to 24 ins.	9c	6c
2 to 3 ft.	12c	9c

Order these top-quality, nursery-grown seedling liners today while we can still supply them.

Write for our complete seedling list.

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CORKSCREW TREE

(*Salix Matsudana Tortuosa*)

Oriental Horticultural Curiosity

From the Hupeh Province of East Central China. Branches both large and small grow upward with an exotic corkscrew twist.

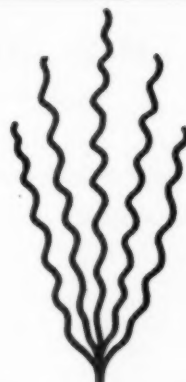
This tree is also known in common parlance as Corkscrew Tree, Corkscrew Willow, or Contorted Hankow Willow.

4 to 5 ft., \$2.50 each, \$25.00 per dozen

Dormant, heavy field liners, \$30.00 per 100, \$250.00 per 1000.

BEARDSLEE NURSERY

Perry, O.



stitution intends that it shall be exercised with impartial regard for the interests of the people of all the states that are affected."

And in another case, the New Jersey Supreme court had declared:

"Apparently there is no legislative authority to regulate those who solicit, in one state, orders for the sale of goods in another state. The reason the legislature has not so provided is apparent. The state and its instrumentalities may not burden interstate commerce by taxation."

But in a comparatively recent (1941) case, the United States Supreme Court decided that the interstate commerce clause of the Constitution "was not intended to inhibit the states from promulgating and enforcing police regulations even though such acts may incidentally or indirectly affect interstate commerce."

In upholding salesman Omar's conviction, the New Jersey judge concluded:

"It seems clear . . . that the authority of Congress in regulating interstate commerce is supreme, but this does not prohibit incidental state regulation in the exercise of its police power in order to protect the safety and social well-being of its people so long as the regulation does not burden or impede interstate commerce. The obtaining of a permit and the payment of a nominal fee for the same in order to carry out needed local regulations does not constitute a burden on interstate commerce and I find that the ordinance in question in this regard is not unconstitutional. Therefore, the conviction should be affirmed." A. S.

CONVERTING a building formerly used as the nursery office into a flower shop, Brown's Nursery & Florist, Griggsville, Ill., recently celebrated the opening of the new salesroom.



Andorra Juniper (top)
Pyracantha lalandi and Kasan
(bottom)



Pfitzer Juniper

OUTDOOR PLANTS

	Each
Andorra Juniper, 6 to 8 ins.	\$0.05
Burk Juniper, 6 to 10 ins. ....	.14
Blue Hetz Juniper, 6 to 10 ins. ....	.05
Pfitzer Juniper, 6 to 10 ins. ....	.07
Pfitzer Juniper, 6 to 8 ins., bands ....	.16
Euonymus patens, small, medium or large-leaved, 8 to 10 ins. ....	.04
Forsythia Beatrix Ferrand, 6 to 10 ins. ....	.08
Forsythia Lynwood Gold, 6 to 10 ins. ....	.05
Forsythia Spring Glory, 6 to 10 ins. ....	.04
Euonymus coloratus, 6 to 10 ins. ....	.04
Pyracantha Kasan, 5 to 6 ins. ....	.07
Pyracantha lalandi, 5 to 6 ins. ....	.05

Less than 300, total order, 2c more per plant.

Less than 50 of any item, 4c more per plant.

Shipment now or book your order for spring.

See classified under lining-out stock for other items.

McININCH GREENHOUSES

St. Joseph, Mo.

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

SEASHORE PLANTING

Along with the well-known problems resulting from intensive urbanization and suburbanization of a great part of our country, there is still another problem caused by the rapidly dwindling natural seashore areas. An example of this problem can be found in the 30-mile beach area stretching from Rehoboth, Del., to Ocean City, Md. Prior to World War II, these two main resort towns were almost isolated towns, with only one or two minor resorts between them. A highway runs from one city to the other on this narrow spit of land that is located between the ocean and the Sinepuxent bay on the ocean side and the Indian river inlet on the landward side. This overgrown bar varies in width from about one-fourth mile to several miles. The long section is (or was) beautifully picturesque dune country on the ocean side and equally beautiful country, with interesting lowland and swamp growth, on the inlet side.

In the short 13 years since the end of the war, almost the whole stretch has been cut up into lots, and much of it has been built up. While the land has become extremely valuable for recreational purposes, much of the natural beauty is disappearing. There is a short section of public land held by the state of Delaware, and a minor amount of land is in military hands. Even the swamp areas are being filled in, and lagoons are being dug to make marinas for water sports and to accommodate boating facilities.

Topography of Area

Recently, after having been asked to landscape a shore cottage, I made a list of plants that grow naturally in the area, both for the sake of a permanent record and to assist me in the project.

Topographically, the dunes rise to about 25 feet along the ocean and then taper off within one-fourth mile or so to land not more than three or four feet above sea level, with some areas becoming marshy along the shores of the inlet. The soil is, of course, completely sand, and the growth responds accordingly. At the most in areas where there is woodland, there is barely an inch of top-

soil or sandy humus. Thus the tree growth reminds one of the funny little mature forests that are seen in New Jersey around the Amboy section, where the trees never reach more than 12 feet. Areas like this are most interesting ecologically.

The plant growth on the dunes is limited much more than on the older inlet side; nearest the ocean only a beach grass grows. The first tree found is the loblolly pine; these trees are usually gnarled and twisted, with low limbs hugging the sand. Normally the loblolly pine in forest stands loses its lower limbs rapidly. The stands of loblolly pine farther away from the ocean are more normal in appearance, but 15 feet is about the maximum height of the trees found here. Every year or so a severe northeaster wind or a hurri-

cane will fling salt spray at the trees and turn the needles brown.

Other interesting plants found on the dunes are two bayberries, *Myrica cerifera* and *M. carolinensis*; the beach plum, and several wild huckleberries. The last-named, with flaming fall colors, make a beautiful sight on the dunes.

My customer asked what might be used as a ground cover in place of grass. I noticed several interesting patches of a santolina, which would be a possibility. I did my botanizing in November; so my list of herbaceous wild flowers is probably incomplete.

Other trees that grow in the area nearer the inlet are willow, red maple, sour gum, wild cherry and white oak. While I did not see them on this trip, I am sure pin oak and red oak can be found in the area. Perhaps the largest tree to be seen is six or eight inches in diameter.

Shrubby Plants in Area

The list of shrubby plants growing in the area is longer. Besides those already mentioned, there is water myrtle, or *baccharis*, which,

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Roses — Rhododendrons
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Hollies — Taxus — Hardy Azaleas

Many other choice items. For 35 years.

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Conifers

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Locust with the first new
tree color in decades.

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PAINESVILLE, OHIO

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SMALL FRUIT PLANTS**

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Bridgman, Michigan

SMALL FRUIT PLANTS

Grapes

Currants

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Write for Wholesale Price List

FOSTER NURSERY CO., Inc.
69 Orchard St. FREDONIA, N. Y.

with its white fluffy seeds, is showy. It likes the swampy areas. Several plants with showy berries are the red chokeberry; a wild rose growing about three feet high; the swamp magnolia, attractive in flower and fruit, and the wild haw. The last-named makes dense thickets. Another plant tending to grow in attractive thickets is sumac.

Among the wild flowers found are goldenrod, wild aster, sea lavender, polygonum and wild tomato with yellow fruit. The only natural vine I found was the common greenbrier, or smilax.

Besides the short grass on the dunes, I saw a grass growing six feet high near the inlet. Other interesting plants found were sedge and ferns. The only plants from outside areas were honeysuckle and dandelion, and these were mostly along the highways.

Even a relatively short list such as this allows considerable latitude in landscaping, yet permits the creation of interesting natural plantings. It is necessary to be aware of the following physical factors in planting at the seashore: The constant breeze, the occasional severe storm, the tendency of the sand to drift, salt in the sand, the lack of moisture-holding ability of the sand and the lack of natural shade.

Recommendations for Planting

A number of recommendations for my client that came to mind included the following: All plants, including trees, should be started in small sizes so that they could establish themselves, being given a start by back-filling the individual holes with imported topsoil and giving the plants frequent waterings, some with fertilizer added to make up for the sterility of the sand.

Architecturally, features that suit the area best are rustic and natural wood structures, post and rail fences, steps of old railroad ties and terraces of cross sections of tree trunks.

Oddly enough, the sandy soil of this area will support the garden variety of nursery plants if a form of hydroponics is used—that of feeding the plants with a complete nutrient solution. Actually, however, it would be a pity if the emphasis were not on the growth typical of the area.

EDWARD J. CARLSON, Bedford, N. Y., is discontinuing his nursery business at the close of this year.

TWIN SPRUCE FARM, Clyde, O., was recently consolidated with Taylor & Sons, fruit growers, of the same city, and will be known by the latter name.

TREE LIST FOR FALL AND SPRING 1958 — 1959

	Per 100	Per 1000	Per 1000 in 10,000 lots
Upright Yew, from seed, several times sheared			
6 to 10 ins., XX	\$65.00		
Scotch Pine			
(2-1), 8 to 12 ins.	12.00	\$60.00	\$56.00
(2-1), 4 to 8 ins.	10.00	45.00	42.50
(2-0), 6 to 10 ins.	8.00	34.00	32.50
• (2-0), 4 to 8 ins.	7.50	24.00	22.00
• (2-0), 3 to 6 ins.	6.00	22.00	20.00
(2-0), 2 to 4 ins.	5.00	16.00	14.50
Scotch Pine, Auvergne, race Noble			
(2-1), 6 to 12 ins.	12.00	60.00	56.00
(2-0), 3 to 6 ins.	8.00	26.00	24.00
Austrian Pine			
(2-1), 4 to 8 ins.	10.00	45.00	42.50
• (2-0), 3 to 6 ins.	6.00	22.00	20.00
Colorado Blue Spruce			
(2-2), 6 to 10 ins. (this one item, fall only)	20.00		
• (3-1), 6 to 12 ins.	14.00	75.00	72.50
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(3-1), 6 to 12 ins.	12.00	70.00	67.50
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(2-0), 3 to 8 ins.	6.00	28.00	26.00
Ponderosa Pine			
(2-1), 3 to 6 ins.	8.00	40.00	
Norway Pine			
(2-1), 3 to 6 ins.	8.00	40.00	
Mugho Pine			
4 to 8 ins., XX	35.00		

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Norway Spruce, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.
Hemlock, 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.
Dogwood, White-Flowering, 5 to 6 ft., 6 to 8 ft., 8 to 10 ft.
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**ABSTRACTS
OF RECENT RESEARCH****HOLLY ROOTING STUDY**

Many woody ornamentals are available as named cultivars, vegetatively propagated clones selected for specific growth characteristics. In the past, most rooting tests with woody plants have been made without attention being paid to the exact cultivar from which the cuttings were derived. Yet, nurserymen have long known that differences existed in the response of some of these plants. The extent to which such differences in rooting response might confuse data has been investigated by Johanna T. Childers and William E. Snyder at Rutgers University, New Brunswick, N. J., using three American holly cultivars. (Proceedings of the American Society for Horticultural Science, 70:445-450.)

The cultivars selected for investigation were Arden, recognized as relatively easy to root; Old Hale and Hearty, considered moderately difficult, and Cumberland, considered extremely difficult. Cuttings of Arden and Cumberland were obtained from 16-year-old pistillate trees. Cuttings of Old Hale and Hearty came from a 40-year-old staminate tree.

Cuttings were made on the 1st and 15th of each month from August 1 through November 15. They were three inches long, and all berries were removed from the pistillate material. The rooting medium was one part of acid peat and two parts of sand by volume. Intermittent mist was used.

On all dates, 90 cuttings of each of the cultivars were divided into three lots for the following treatments: A 10-minute soak in a 1 per cent aqueous solution of KMnO₄ and Rootone No. 10; Rootone No. 10, and control.

Root systems were arbitrarily classified as heavy, medium or light according to the number and size of the roots produced. At the time the cuttings were made, a small disk of basal stem tissue was removed for a starch test. Some wood was also removed at the orchard and quick-frozen for other chemical tests.

As was already reported, Arden proved to be relatively easy to root at all dates included in these tests. Rooting was never less than 65 per cent and was often 100 per cent. Old Hale and Hearty proved to be moderately difficult to root, but under

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some conditions 85 to 90 per cent rooting was obtained. Cumberland was difficult to root, and the best tests showed only about 70 per cent rooting; the poorest, below 10 per cent.

The best rooting for all the cultivars was obtained with cuttings made on September 1. However, Arden did well on all the dates. After an initial drop in rooting percentage after September 1, Old Hale and Hearty showed a gradual recovery in rooting ability up to November 15, but very few cuttings of Cumberland rooted after September 1.

Rootone No. 10 was apparently too concentrated for the holly cuttings, since many cuttings were burned and defoliated. Since damaged cuttings did not produce roots, the total number rooted was thus reduced. Those that did root, however, produced a heavier root system as a result of the use of the rooting powder. The $KMnO_4$ may have acted as an oxidizing agent on the commercial rooting compound, since cuttings treated with this combination were not damaged to any great extent and frequently produced the greatest number of rooted cuttings and the heaviest root systems.

No association was found between rooting response and starch content of the cuttings as indicated by the starch test.

Analysis of the tissue obtained at the orchards showed nonreducing sugars low and reducing sugars only slightly higher. Most of the carbohydrates were in the form of polysaccharides. There was no consistent relationship between the carbohydrate content of the wood and the rooting response.

Rooting of the American holly is probably limited by other factors, since the total rooting responses were not materially altered by carbohydrate content and treatment with the growth regulator did not consistently result in an increased rooting response. C.

MAKING A NURSERY

[Continued from page 16]

dressing of all planting areas with gypsum. While the plan was suggested mainly from a desire to provide adequate quantities of calcium for the rhododendrons and azaleas that we were growing, without altering the pH of the soil, there was a secondary yet perhaps even more important effect in that gypsum greatly improves the drainage of low land that is a little on the heavy side. The same effect can be obtained by

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Almond, Pink
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Barberry, Green
Barberry, Red
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By John J. Pinney, 64 p. (1958). \$1.00.
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1-yr., 2 1/4-in. pots	15.00	135.00

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applying lime, because the effect of both lime and gypsum is coagulation of the clay particles and improvement of the aggregation of the soil to such a degree that instead of the soil's becoming an impervious, smeared, soggy mass, it becomes a fairly closely knit aggregation of crumbling particles, through which surface water can drain without destroying the tilth of the soil.

We find that the application of gypsum to our land not only improves the drainage, but greatly improves the workable tilth. This practice is an important one in the successful growing of any plants, particularly rhododendrons and azaleas. These plants are mainly surface rooters, and they dislike a sodden and poorly aerated soil.

Laying Out the Blocks

In the layout of our main nursery blocks we have run a 15-foot road east and west, so that the 150-foot nursery blocks which extend between the main roads run north and south. This means that our 6-foot wide planting beds also run north and south. I believe this to be a distinct advantage because it assures that the beds are more efficiently covered by the lath shades, particularly during the hot noonday period. I have proved with plantings in different parts of the country that east-west beds are much more susceptible to both winter burn and summer scorch on the south side of the beds.

I recall a planting of Taxus hicksi and Taxus cuspidata which was set out on 4-foot beds covered with snow fence, each bed containing five rows of plants. These young liners were planted in the spring and immediately covered with snow fence. When this was removed the following spring, it was found that the row on the south side of each bed was completely gone. All plants had been killed, some by the excessive summer heat; those that were remaining at the end of the summer were finished off by the extremes of winter weather. Not only had this row been eliminated, but a steady graduation of size could be seen in each successive row moving from the front, or south side, of the bed to the back, or north side. Cuttings which were in the last row on the north side of the bed and which had received a maximum of protection from the shade were by far the largest and sturdiest plants; the color was much better, and the percentage of loss was a normal 5 per cent. This illustration proved to me the real value of orienting the beds north and south; when this was done on this particular field,

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losses, which had amounted to nearly 30 per cent, were reduced to normal and reasonable portions.

Summary

To sum up these remarks: We have found that it pays to survey carefully a piece of land before commencing to use it. One must plan to provide such simple yet essential services as proper drainage, general leveling (as opposed to specific true leveling), proper soil conservation practices in terms of terrace and waterways to prevent erosion and the rebuilding of soil fertility with good winter and summer cover crops if time and conditions will allow. Each of these points reacts with the others to provide favorable conditions in which plants may grow. It is not possible to single out any one of them as being the most important, for all are important for the proper maintenance and development of good nursery crops.

A. A. N. APPOINTMENT

James Elliott, Plumfield Nurseries, Fremont, Neb., was recently named chairman of the American Association of Nurserymen membership committee for the state of Nebraska. The appointment was made by Robert M. Hobbs, A. A. N. president, to fill the vacancy created by the death of Gus Gritzmaier.

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Jumbo, 1/4 to 3/8-in. cal.	\$ 5.00	36.00	33.00
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PLANT NOTES HERE AND THERE

By C. W. Wood

Notes on New Plants

The heleniums are among the most important flowers of late summer and autumn. They are hardy, easy of culture, permanent and, in some cases, brilliant. The last descriptive term applies to the new variety, Copper Spray (Kuppersprudel), which I had from a large midwest nursery last spring. After a trying spring and summer, with severe frost until mid-June and little moisture from the passing of winter's light snow accumulation until late August, the plant put on a brilliant performance, indicating the gratifying ability of coming back after the severest setbacks. Although it supposedly can grow up to four feet in height when given a rich soil and plenty of moisture, the plant reached only about two feet in my trials last summer, but it lived up to its reputation of producing an abundance of large (an inch and a half across), brilliant (copper, bronze, orange and red) blooms from August onward. In my opinion, here is an important new flower with which one can do well.

The subulate phloxes have been so intermingled during recent years that one no longer is sure when to call a plant Phlox subulata or otherwise; however, the new creeping phlox, Scarlet Flame, has the earmarks of a brilliant P. subulata and the characteristics, including a lovely, bright green carpet, on which to display its long season of brilliant red flowers. The first display of color in my trials last spring was disappointing because of repeated freezings, but the latter part of a long blooming season showed that the introducer's description "a sensational scarlet-ruby carpet, with animated vermilion eye," was apt and accurate. This is the reddest of the red creeping phloxes that I know, a plant that should prove attractive to gardeners.

Chrysanthemums

Although I do not speak with authority when I talk about chrysanthemums, for I do not try to keep informed on all new varieties, I believe that I am not far wrong when I say that the new University of Minnesota cushion, Minnpink, is the best thing that has happened in cushions in a long time. It is one that probably will hold its place at the

head of the pinks (rose pinks to be more exact) for a long time. It seems to have everything that one looks for in the perfect cushion chrysanthemum, including low stature (a foot or so), vigor (it spreads into a broad, healthy mat) and extreme floriferousness, commencing about mid-September. And the color is a most pleasing shade of bright rose pink.

I am extremely enthusiastic about the new, English, hardy aster, Marie Ballard. Double asters and so-called double ones often fail to interest me, but our present plant is so nearly completely double that it presents the picture of a powder puff, and the color of the flower fills out the picture by being an entrancing powder-blue shade. And if that does not make an almost perfect aster, let me add that it commenced to bloom in our trials during the last week of August and was a mound of blue by

September 10. The plant is supposed to reach 30 inches in height in good soil with normal moisture; it did not exceed two feet in our dry season, but all that did not curb its blooming spirit when flowering time came. I bespeak for it a warm welcome from American gardeners when it becomes distributed in this country.

Shasta Daisy

If one grows Shasta daisies for cut flowers or for plant sales, a kind to try is the new English variety, Thomas Killin. I saw it only once for a brief period, but during that time the plant showed that it had most of the qualities which go into the making of the perfect Shasta for cutting. My former opinion, perhaps expressed in this column, that Mark Riegel is the best cutting variety to date, may have to be revised after this new introduction is fully tested

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3 to 3 1/2-in. cal., B&B. . . .	\$400.00
2 1/2 to 3-in. cal., B&B. . . .	300.00
2 to 2 1/2-in. cal., B&B. . . .	225.00
1 1/2 to 2-in. cal., B&B. . . .	150.00
1 1/4 to 1 1/2-in. cal., B&B. . . .	105.00
8 to 10 ft., B&B.	90.00
6 to 8 ft., B&B.	70.00
5 to 6 ft., B&B.	50.00
4 to 5 ft., B&B.	40.00

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5 to 6 ft., B.R.	4.25	4.00	1.00
6 to 7 ft., B.R.	5.25	5.00	1.00
7 to 8 ft., B.R.	6.25	6.00	1.00



SILVER MAPLE

	Each Per 10	Each Per 100
6 to 8 ft.	\$1.00	\$0.75
8 to 10 ft., 1 to 1 1/4-in. cal.	1.25	1.00
8 to 10 ft., 1 1/4 to 1 1/2-in. cal.	1.50	1.25
10 to 12 ft., 1 1/2 to 1 3/4-in. cal.	1.75	1.50
10 to 12 ft., 1 3/4 to 2-in. cal.	2.00	1.75
2 to 2 1/2-in. cal.	2.50	2.25



CHINESE ELM

	Each Per 10	Each Per 100
6 to 8 ft.	1.25	1.00
8 to 10 ft., 1 to 1 1/4-in. cal.	1.50	1.25
8 to 10 ft., 1 1/4 to 1 1/2-in. cal.	1.75	1.50
10 to 12 ft., 1 1/2 to 1 3/4-in. cal.	2.00	1.75
10 to 12 ft., 1 3/4 to 2-in. cal.	2.25	2.00
2 to 2 1/2-in. cal.	2.75	2.50

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(understand, though, that I am not prepared to go that far at present). However, this new variety has many virtues, including a double row of pure white, broad petals, making a perfect circle around a contrasting, golden-yellow, crested center. I was amazed, too, by its floriferousness, a vital factor in the appraisal of Shasta daisy for cut flower purposes. If it proves hardy, I have no doubt that generous treatment of Thomas Killin will shove it into the front ranks of Shastas.

I should like to quote from a note just received from a friend who had the new American Giant strain of pansies under observation last summer. He writes, in part, as follows: "Among the fancy pansies that I have seen (you will recall, no doubt, that I have studied pansies for a quarter of a century), the new American Giants which I saw three or four times last summer have caught my eye as the best introduction since the Swiss Giants came on the scene. Some of the features of the new strain that attracted me were large size of flower (a main factor in the making of a fancy pansy); wide range of colors, especially in deep tones and in multicolor flowers, and apparent heat-resisting quality. I was also favorably impressed by

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the striking bronze shades shown. Of course, heavy foliage and good flower substance tell the experienced pansy grower that the strain has a good constitution. If I am not mistaken, the American Giants will find a hearty welcome from pansy fanciers."

Iris Reticulata

I had a long letter, the kind that is always pleasant to receive, from a New York reader, in which he covered several subjects and asked a few pertinent questions, one of which I will try to answer here. He wrote as follows:

"We are finding an increasing demand for the small, hardy spring-flowering bulbs, most of which we have no trouble with, but neither we nor our customers can keep *Iris reticulata* going in the garden in the east. It could be it is not hardy in our climate (10 degrees below is considered cold here), but I scarcely think so, for the bulbs often disappear between the beginning of their dormant period and the time we dig them for fall sales. Our customers report the same trouble, though they do not know exactly when their losses occur between flowering seasons. Can you offer any suggestions?"

Though northern gardeners profess to grow the bulbous iris varieties, including *I. reticulata*, with perfect ease, most are likely to run into the same trouble that this upstate New York friend and I have experienced, extremely short life when the plants are handled in the ordinary way. Even Farrer, who was considered to be among the master gardeners, was forced to say, "Even if bulbs have to be bought every year, their beauty and opportuneness is such, and the expense so small, that indeed it need not be grudged." His word "opportuneness" has reference, of course, to the plant's flowering habit—that is, with the first breath of warmth in spring, late February or early March even this far north when, on rare occasions, the sun gets a chance to bring the plant into life. Hardy even in this far northern section, it should be given a sunny place, preferably in light, well-drained soil that is shielded from cold, north winds. But one has to make up his mind that the plant's life span will not be long unless special pains are taken to help it meet the vicissitudes of our alien climate.

I suspect, after years of experimentation, that the only safe way to handle this or any other bulbous iris is to dig bulbs as soon as the foliage dies in spring, store the bulbs in a warm, dry, airy place until late

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Viburnum opulus sterile , 4 to 6 ins.	100.00	
Viburnum tomentosum plicatum , 4 to 6.	120.00	
Viburnum burkwoodi , 4 to 6 ins.	150.00	
Viburnum rhytidophyllum , 4 to 6 ins.	100.00	

	Per 100	Per 1000
Viburnum carlesi (Fragrant Snowball),		
9 to 12 ins.	\$250.00	
Ilex rotundifolia , 6 to 9 ins.	120.00	
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fall and then replant them where they can make root growth during the fall and winter; otherwise, summer and fall rains are likely to start activities which the bulbs are not used to in their native, near-desert, Asiatic homes. The only alternative to annual digging that we found in our experiments was to plant in heavy sod, where the grass roots take up all excess moisture during the summer and allow the bulbs to rest in peace. But that is not how a meticulous gardener likes to operate, nor does this method insure permanent success.

Elsholtzia Farquhari

I should like to answer the Illinois reader who asks if the shrubby mint, sparingly found in gardens under name of *Elsholtzia fraquhari*, would make a suitable garden plant for central Illinois. Judging by the plant's behavior in my trials over several seasons about 30 years ago, I believe it would make a good seller and a good garden ornament. I shall try to amplify that statement by reciting a few factors gleaned from notes made at the time it was under trial here.

When my seeds came from a European botanic garden, they were labeled "a tender shrub"; actually, the plant proved to be neither tender nor

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Coronaria Charlotte, double pink flowers.

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Hopa, carmine buds and flowers.

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Viburnum juddi, better than *carlesi*.

Delicate pink flowers. Very fragrant.

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a shrub in our climate. Rather, it is a herbaceous plant, killing to the ground in winter and sending up 2-foot stems, each stem ending in a 1-sided spike of violet-purple flowers in autumn. The plant is a splendid garden ornament and also makes good cutting material. If it bloomed in June, when the garden was full of flowers, it might not be noticed; however, the plant's late flowering (September and October) is sure to attract attention. Because of its late blooming, it never produced viable seeds in our trials, but the plant is easily propagated from green cuttings in summer. It should be given sunshine and as much protection as possible from cold winds.

The name used at the head of this note seems not valid among botanists, "Hortus" mentioning that the plant in gardens under that name is probably a form of *E. stauntoni*. That could well be, for the garden effects of the two plants are similar, except that *E. stauntoni* is said to reach five feet in height where it does not kill back.

Coral-Bells

A correspondent asks, in a letter on various subjects, if coral-bells would make a good addition to his list of plants for selling in cans during June. I see no reason why the venture would not be entirely successful, for I sold them out of clay pots a quarter of a century before cans were even thought of. A few notes on the subject in general may not be out of place at this time.

I notice that our correspondent, along with most gardeners, uses coral-bells as an all-inclusive term for the entire *heuchera* group. This may not be correct, for a survey of the subject reveals the fact that authorities restrict the term "coral-bells" to *Heuchera sanguinea*, while the entire genus is known as alumroot. Be that as it may, in *heuchera* we have a group of summer-flowering plants that could be made far more important in the garden than it now is. One way to make them more important would be to show customers some of the better named varieties. And included in that category would be the new *Scarlet Sentinel*, which was in our trials last year and which, I understand, will be introduced in 1959. It is a fine, upstanding plant, taller than any other coral-bells in the trials, with a most attractive scarlet color. It is a plant that should sell and sell. As vegetative reproduction of *heuchera* has been discussed in this column within the past year, it need not be repeated now. For readers who are not familiar with

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heuchera, it might be well to add that many factors, including graceful growth habits, a June and July flowering period, attractive colors, ease of culture and pleasing foliage, combine to make the group important garden ornaments, important not only for grouping in forward positions, but also for rock garden adornment, use in partly shaded areas and for cutting. Then, too, the plants are quite tolerant, doing well in sun or part shade.

Arnica

No doubt I am prejudiced against arnica in general and may not be able to give an unprejudiced answer to an inquiry on the genus; the fact remains that I know no arnica that is worth the trouble to keep it going in a lowland garden. When you read the lavish praise of arnica found in some quarters (for instance, this from Farrer: "Gay, handsome composites from the high alpine turf in the Old and the New World"), you may be confused at the conflicting opinions; all I can do is to ask readers to try any of the kinds in their own garden and form their own opinions. The following is my own rather pessimistic report:

None of the arnicas is really easy to grow, though most may be induced to persist in an indifferent way; well-grown plants are to be had only at the expense of special care. Among other factors, arnicas need a rich, moist soil, preferably watered from below, with perfect drainage to insure no excess of moisture around the flannel-like leaves; second, in most cases that I know, the soil should be on the acid side. If these conditions can be provided and the climate is not too hot, one may agree with Farrer. And if one wants to try them, he should get hold of the foot-tall European *A. montana* or our own *A. cordifolia* (to 15 inches); the plants should be treated as outlined before, and then one can enjoy their "gorgeous, golden suns" as Farrer called them.

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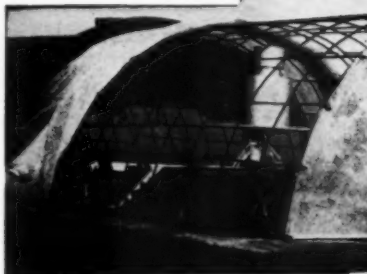
[Continued from page 7]

on seedling rootstocks. Peaches are usually dwarfed by working on plum rootstocks, and pears by using rootstocks of quince.

Piante Mati, one of the largest nurseries in Pistoia, estimated that fruit trees constituted 40 per cent of the firm's total output. Ornamental evergreens accounted for 25 per cent, deciduous trees and shrubs 15 per cent and seedling conifers for forest tree planting 20 per cent. The other nurseries in the area follow

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Berberis Julianae—The hardest evergreen barberry—cuttings rooted July 57 and kept cut back, very heavy, 7 to 9 ins., 12c; our usual big rooted cuttings, Aug. 58, 9c.

Berberis Julianae nana—Compact growth, darker green leaf, often called "BPT"—RC, Aug. 58, 10c.

Berberis mentorensis—Cuttings rooted July 57 and kept cut back, big enough to go directly to the field, 8 to 10 ins., 10c; our usual big RC, Aug. 58, 7c.

Buxus sempervirens (Boxwood)—An excellent, bushy strain—cuttings rooted Sept. 57 and kept cut back, 4 to 6 ins., beginning to bush out, 10c.

Chaenomeles (Flowering Quince)—Both on own root from softwood cuttings. No suckering from these plants.

Nivalis—The best of the white-flowering quinces—BG, liners, 6 to 12 ins., 18c; 12 to 18 ins., 24c.

Texas Scarlet—The best for canning because of the profuse red flowers on a compact low plant—BG, liners, 6 to 12 ins., 20c.

Cherry Laurel—See *Prunus*.
Cydonia—See *Chaenomeles*.

Eucymus alatus compactus—RC, June 58, 8c.
Ginkgo biloba seed—Home-grown, properly cleaned and stored (stratified), with planting suggestions, \$1.45 per lb. Minimum order 5 lbs., 20 lbs. or over, \$1.25 per lb.

Ilex cornuta burfordii—RC, heavy, 6 to 12 leaves, 8c. Not ready until spring.

Ilex crenata convexa—Cuttings rooted July 57 and kept cut back, beginning to branch well, heavy, RC, 9c; our usual grade, RC, Aug. 58, 7c. Not ready until spring.

Ilex crenata hetzi—Large RC, Aug. 58, 7c.
Ilex crenata rotundifolia—Cuttings rooted Aug. 57, kept cut back, branched, exceptionally heavy, RC, 9c; our usual large RC, Aug. 58, 7c.

Ilex opaca (American Holly)—Northern types, no southern hybrids. Guaranteed female and guaranteed male from cuttings—BG, liners, 4 to 6 ins., 17½c; 6 to 10 ins., 25c; 10 to 15 ins., 35c; for canning in fallon cane, mostly single stem, some lightly branched, BG, liners, 15 to 30 ins., 50c.

Ilex opaca shipped only on March 1, 1959 (because that is the very best time to move American Holly).

Ilex—Foster's No. 2 Hybrid—Narrow, spiny leaves, red berries, fruits heavily, rapid grower, RC, Sept. 58 (ready in late spring), 10c.

Magnolia grandiflora—Seedlings, stocky, from well-spaced outdoor beds, 4 to 6 ins. and up, 8c.

Prunus caroliniana (Southern Cherry Laurel)—Seedlings, sheared to keep them bushy, 8 to 12 ins., 8c.

Prunus laurocerasus schipkaensis (Cherry Laurel)—RC, very large and heavy, Aug. 58, 10c.

Prunus laurocerasus sabeliana (Cherry Laurel)—Spreading, usually considered the hardest—RC, Aug. 58, 12c.

Prunus laurocerasus macrophyllum (Cherry Laurel)—Certainly the prettiest and seems to be even harder than sabeliana. Large leaves, very dark green—RC, Aug. 58, 20c.

Prunus laurocerasus officinalis (English Laurel)—Not hardy north—RC, Aug. 58, 10c.

Thuja orientalis aurea nana (Berckmans Golden Arborvitae)—RC, Feb. 58, growing in soil ever since. About right for a 2½ or 3-in. pot, 10c; BG, transplants, 8 to 12 ins., 25c.

Viburnums—All are on their own roots from softwood cuttings.

Viburnum carlesii—RC, June 58, 15c; BG, liners, single stem to lightly branched, 18 to 24 ins., 30c.

Viburnum chenaultii—More shapely and attractive than burkwoodi—RC, June 58, 15c.

Viburnum juddii—Better than carlesii. A more compact plant with more attractive leaves. Not subject to leaf spot. Flowers really pink—RC, June 58, 15c.

Viburnum rhytidophyllum (Leather-leaved Viburnum)—RC, July 58, 12c.

Viburnum tomentosum plicatum (Japanese Snowball)—RC, June 58, 18c.

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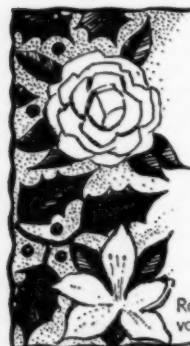
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4-yr., 18 to 24 ins. (Fruit Buds)75	7.00	67.50	650.00
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NURSERIES**

AZALEAS - CAMELLIAS
and other choice evergreens

Wholesale Catalog SEMME'S, ALA.

somewhat the same pattern, although some of the smaller ones specialize in certain items that they sell to the larger nurseries.

National Nurserymen's Group

The Associazione Orticola Professionale Italiana is the organization of the nurserymen of Italy. Over 500 nurserymen are members, of whom 60 are located in Pistoia. The president of the association, Casimiro Mati, presented me with a card conveying the greetings of the A. O. P. I. to the American Association of Nurserymen and to all of those interested in the nursery industry in the United States.

Burlap is expensive in Italy, but rye straw is cheap and Italian workmen are skillful, so most of the plants are "balled and strawed" rather than burlapped. It is interesting to watch a workman take a bundle of straw tied together near one end and deftly open up the middle and completely and equally surround the soil-ball with straw, which, when tied about the stem of a plant, furnishes as much protection and rigidity as burlap, if not more.

Shipping was in full process in early April. Digging and wrapping were going on everywhere. Straw was the universal binding material. It was impressive to see how the horizontal arms of espalier fruit trees were bound and protected with straw wrapping for shipment. The plants looked like grotesque statues as they stood on the shipping platform awaiting further disposition.

Family Ventures

Many nursery firms in Pistoia, as in other European nursery centers, have been owned by the same family for several generations. Considerable family pride is evident among the present generation, and they conduct their business so that they will feel it may be a credit to their ancestors. The younger men are particularly eager to make progress. At several of the nurseries we visited, I found that the sons of the present managers had engaged in nursery specialties; one, that of hybridizing plants; another, the development of a mist propagation system, and still another, the culture and shipment of aquatic plants for water gardens.

Nurserymen in Pistoia are optimistic concerning the future. In addition to their wholesale sales within the country, they export about 10 per cent of their annual production, mainly to Turkey, Greece, France, Switzerland and Germany. They believe the market will continue to be good for high-quality material.

From Italy we drove to Nice, France, where we attended the 15th

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International Horticultural Congress, then visited some of the horticultural experiment stations in southern France and finally went to the valley of the Loire, a region famous for its nurseries since the 16th century. Unfortunately, our high school French was of little value in conversation, but here and there we found some English-speaking nurserymen, and everywhere we saw marvelous displays of nursery stock.

In the Loire valley, in late April, the espaliered pear and apple orchards were in full bloom. A road on the levee on the north side of the Loire river furnishes a marvelous lookout to view the numerous orchards along the way. This area is known for its old and famous chateaux, many of them still landscaped in medieval style, with formally trained broad-leaved evergreens, *Quercus ilex* and *Prunus laurocerasus*.

At Orleans, the nurseries lie side by side on land which has belonged to the same family for many generations. Some nurserymen have had to expand and have bought farmland a few miles out of town for a secondary nursery, but they still live in the house of their forefathers and do their propagating and shipping from the home place. The outlying nurseries, therefore, are used for growing on stock.

Nurserymen of the Loire valley are noted for plant breeding and the introduction of new clones to the trade. They are progressive in many respects, as in the development and use of special mechanized nursery equipment. A planting machine used by the Turbut nursery at Orleans was excellent in both appearance and performance. The machine spaced and firmly set both hardwood cuttings and rooted plants as well as could be done by hand and in a fraction of the time hand labor would require.

After leaving Orleans we visited



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For December booking.

Birch, European	Each	Each
Cut-Leaved	10 to 30	30 or more
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10 to 12 ft.	\$3.75	\$3.50

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8 to 10 ft., 1 1/4 to		
1 1/2-in. cal.	4.25	4.00
1 1/2 to 2-in. cal.	6.00	5.50

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WHITEROCK NURSERIES

Box X Crockett, Tex.

the famous horticultural school at Versailles and the magnificent Versailles gardens, landscaped in formal style. We then spent an afternoon with Pepinieres Thuilleaux, Thuilleaux Nurseries, a firm owned and operated by the Thuilleaux family since 1664. Two brothers are managing the business at present. The nurseries consist of 125 acres of closely planted stock at several locations. The plants are more or less equally divided among fruit trees, shade trees, evergreens, ornamental shrubs and roses. This firm takes great pride in the diversity of form and variety of its fruit trees. It produces a form and type of each variety to suit practically any conceivable planting site.

Belgian Aspect

Next we drove to Belgium and the old nursery town of Ghent, where about 360 nurseries operate 10,000 greenhouses and 5,000 acres, devoted mainly to the production of tender azaleas and tuberous-rooted begonias. Azaleas are commonly grafted in the spring on plants rooted from cuttings the previous fall, although some grafting is carried on practically the entire year. Newly grafted plants are held in tight sweatboxes until the union is healed, then cut back in the greenhouse and later moved to a coldframe in the field. Practically all the plants are exported for forcing by the florists' trade in all corners of the world.

LATE WHOLESALE REPORT

Supplementing the reports on fall business given by wholesale nurserymen and published in the previous issue of this magazine are the following comments by Willis A. Stribling, sales manager, Stribling's Nurseries, Merced, Calif., received after the December 1 issue had gone to press:

"We are looking forward to a good winter and spring, with possibly a greater planting of fruit trees by the commercial orchardists due to better weather conditions this fall. Fruit and nut trees seem to be in better supply than they were last year.

"We have just started digging deciduous fruit and shade stock (November 17) and have progressed well with the fall field balling of our ornamentals. Deliveries currently are brisk. There are a more rounded supply of ornamental plants in 1-gallon and 5-gallon containers and a better supply of field-grown plants, which we find gaining in popularity where specimen stock is needed for landscape and home planting."

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Broad-leaved Evergreens and a
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CRAB APPLES FOR AMERICA, by Donald Wyman. Breeding, propagation, culture, sources of supply. 63 p. \$2.00.
American Nurseryman Chicago 4, Ill.

BOOK REVIEWS

GRAFTER'S HANDBOOK

Since its first publication in 1947, "The Grafter's Handbook" has been a standard authority on this phase of propagation. Its revision by the author, after 10 additional years as propagator at the East Malling research station, on top of the 20 years' experience there providing material for the first edition, has made the contents more instructive than before. R. J. Garner, the author, covers the fundamentals of his subject and outlines the various procedures in detail, including notable new features in this edition.

After an opening chapter on the subject in general, the author devotes chapters to compatibility and cambial contact, rootstocks and their propagation, the collection and treatment of scion wood, tools and accessories, tree raising in nurseries, and grafting established trees, besides the lengthy main chapter in which the various types of grafting are explained in detail and the various methods described, including those developed in other countries as well as in England. The clarity of the text is reinforced by 117 diagrams and 42 plates. A glossary, references and an index add to the book's usefulness. Published in England by Faber & Faber, Ltd., it is distributed in this country by the Oxford University Press, at \$5.75.

"AMERICA'S GARDEN BOOK"

Since its first appearance nearly 20 years ago, "America's Garden Book" has been a useful reference book on gardening for the homeowner and, indeed, for others interested in phases of gardening as well. The present revision has been much enlarged in contents to include recent developments, such as penthouse and roof gardens, growing plants under artificial light, swimming pools, etc. In the construction and maintenance of architectural features in the garden, the design and planting of various types of gardens, the selection and culture of various classes of plants in the gardens, the control of insects, diseases and weeds, and the cultivation and propagation of plants are covered with much thoroughness for a single volume. By the enlargement of the page and the use of smaller type and of two columns to the page instead of one, much additional matter has



WHITE KNIGHT in our field
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We have this fine variety in good supply. Heavy, No. 1 grade plants that will please your customers.

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Wills Point, Tex.

Fine Roses Since 1919

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	10 to 49	50 to 499
5 to 6 ft., br.....	\$2.75	\$2.50
6 to 7 ft., br.....	3.35	3.00
7 to 8 ft., br.....	4.50	4.00

Also have selected strains of Thornless Honey Locust at 50% less than above prices. Budded trees.

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Wholesale Growers of Broad-Leaved
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600 lbs. of good, clean seed. \$1.50 per lb. F.O.B. our nursery. Not less than 5 lbs.

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Complete line of container and field-grown ornamentals

● Better Quality

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<i>Juniperus, Pfitzer</i> , 30 to 40-in. spread	2.00	
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<i>Juniperus excelsa stricta</i> , 36 to 40 ins.	2.00	
<i>Abelia grandiflora</i> , 22 to 28 ins.	1.00	
<i>Cherry Laurel</i> , 3 to 4 ft.	1.50	
4 to 5 ft.	1.75	
5 to 6 ft.	2.00	
<i>Ilex opaca Hume</i> , 4 to 5 ft.	2.00	
<i>Ligustrum lucidum compactum</i> , 4½ to 5½ ft.	1.35	
<i>Mahonia bealei</i> , 16 to 20 ins., gal. cans	1.00	

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Spring Bulb List Ready

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GILMORE PLANT & BULB CO.

Julian, N. C.

been compressed into this volume, fewer in number of pages, but of greater thickness than before.

The authoritative nature of the contents is attested by the authorship, which consists of James Bush-Brown, a member of the Society of Landscape Architects, and Louise Bush-Brown, director emeritus of the Pennsylvania School of Horticulture. The ample table of contents covers four pages, and an extremely detailed index occupies the final 40 pages of this 752-page volume, just published by Charles Scribner's Sons, at \$7.95. The book is plentifully illustrated with photographs, drawings, diagrams and maps.

FOR BEGINNERS IN PLANTS

Its announced aim being to introduce to beginners the world of plants, the new book, "Plants of Woodland and Wayside," written and illustrated by Su Zan Noguchi Swain, and just published by Doubleday & Co., at \$2.95, presents its material in a fashion which makes it informative to adult readers and understandable by the young ones. Its 60 pages, 8½x11 inches, cover in the text the fundamentals of plant life, more abstrusely presented in botanies, and then introduces the various types of plants according to their environment and method of survival. The pages are filled with many excellent color illustrations of plant parts, lower forms of plant life and the common wildflowers of the United States plus a few rarer ones. The author has intended this book to serve as an introduction and to offer the way to further study of plants, including a list of book references for that purpose. With its floral cover in colors, the book is likely to be found on the Christmas store counters, but it is excellent at any time as an informative introduction to the plants around us for young and old.

ARKANSAS WAXING RULE

The sale of rosebushes and other nursery stock covered with green-colored wax has been prohibited in Arkansas. The state plant board passed a rule to this effect October 29 as rule 4G.

STARTING a business known as Grogan's Windy-Lo Nursery is D. G. Grogan, Natick, Mass.

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Heavy Weight Price
100. \$3.75 1000. \$35.00

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High . . . 5 ins.
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100. \$3.50 1000. \$35.00
Heavy Weight Price
100. \$4.50 1000. \$45.00

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Bottom . . . 5 ins.
High . . . 6 ins.
Weight per 100
Regular 15 lbs., Heavy 35
Regular Weight Price
100. \$4.00 1000. \$37.50
Heavy Weight Price
100. \$5.25 1000. \$50.00

Size 2 Top . . . 7 ins.
Bottom 5 1/2 ins.
High . . . 7 ins.
Weight per 100
Regular 24 lbs., Heavy 55
Regular Weight Price
100. \$4.50 1000. \$42.50
Heavy Weight Price
100. \$5.75 1000. \$55.00

Size 3 Top . . . 8 1/2 ins.
Bottom 6 1/2 ins.
High . . . 9 ins.
Weight per 100
Regular 30 lbs., Heavy 70
Regular Weight Price
100. \$5.00 1000. \$47.50
Heavy Weight Price
100. \$6.25 1000. \$60.00

Size *4 Top . . . 10 ins.
Bottom . . . 8 ins.
High . . . 10 ins.
Weight per 100-120 lbs.
100. \$11.00
500. \$55.00 1000. \$100.00
*Heavy Only—
For trees and shrubs.

Size *5 Top . . . 12 ins.
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High . . . 12 ins.
L.G. POT
Weight per 100-250 lbs.
20. \$30 ea. 100. \$27.50
500. \$125 1000. \$225
*Special for extra-heavy
trees and large shrubs.

Size Pan Top . . . 8 1/2 ins.
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500 of a size takes 1000 rate in sizes 0-0 1/2-1-2-3-Pan. Regular-weight pots packed 100 and 200 per carton in sizes 1-2-3-Pan. Size 0, 250 only. Size 0 1/2, 200 only. Heavy pots are packed 250 per carton in size 0; 100 per carton in sizes 0 1/2 and 1; 50 per carton in sizes 2, 3, Pan and 4, and 20 per carton in size 5. NO BROKEN CARTONS.

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AZALEAS AT BILTMORE

The newly created rhododendron collection at Biltmore estate, Asheville, N. C., has already received national recognition. The board of directors of the American Rhododendron Society, meeting at Portland, Ore., designated the new plantings as an official test garden of the society.

The recently formed southeastern chapter of the A. R. A., meeting at Asheville, unanimously approved the action of the board. Dr. Ernest Yelton, Rutherfordton, N. C., president of the chapter, said "We are fortunate, indeed, to have the world-famous gardens and their extensive facilities made available for large-scale testing of these aristocrats of shrubs under our own conditions."

"We here in the southeast are in one of the finest rhododendron-growing areas in the world," commented Dr. Fred J. Nisbet, superintendent of the estate, when he was informed of the appointment. "It is unfortunate that we have limited our

plantings in the past mostly to a few native kinds. There are literally thousands of sorts which could grow here."

A 20-year program of forming a major collection of these shrubs, which include the azaleas, was begun in 1957. A specially adapted nursery has already been constructed, where thousands of small plants, representing more than 500 species and varieties, have been planted since last October. As these grow to planting-out size the permanent planting area for the collection will be prepared.

The gardens of Biltmore estate are known to gardeners and plantsmen everywhere. Developed by Frederick Law Olmsted for George Vanderbilt from 1889 to 1895, they surround the magnificent 250-room Biltmore House. This French Renaissance mansion has been called "the finest home in America."

The original estate covered 125,000 acres. Chauncy Beadle, the first superintendent of the estate, made it a planter's paradise during the

59 years he was in charge. Included in the 12,000 acres remaining in the estate is the Chauncy Beadle memorial azalea garden, "the largest and only complete collection of native American azaleas in the world."

As more than 65,000 visitors from all over the world tour the estate each year, the influence of this new test garden and rhododendron collection should have far-reaching effects.

ADDED to the extensive garden operations of Bay Landscape, Bay-side, L. I., N. Y., is a retail flower shop, which was opened October 18.

HENRY W. BARNES announces the recent opening of the Crown Nurseries, Belton, Mo. He formerly operated Barnes Nurseries and Arcadia Gardens.

STARTED recently was the Cross Arm Nursery, at Joppa, Md., by Hy Thielemann. Mr. Thielemann will grow evergreens for the retail trade on a 10-acre plot.



CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary

304 MITAU BUILDING

SACRAMENTO 14, CALIF.

MONTEREY BAY CHAPTER

The November 20 meeting of the Monterey Bay chapter of the California Association of Nurserymen was held at Walker's Signal cafe, Salinas, Calif., with 40 members and guests present. President E. B. Stone, Salinas, presided.

The secretary gave a report on the progress made to date with the scholarship program. President Stone called attention to new posters being prepared at the C. A. N. headquarters at Sacramento. Mrs. Lydia Bishop was named in charge of the Christmas meeting scheduled for December 11.

Pressley Neville Jones, C. A. N. insurance representative and adviser, was then introduced, and he presented a talk on insurance for the man in the nursery business—accident, health, liability and life. He also distributed information circulars on various programs and answered many questions.

Clayton G. Pleiman, Sec'y.

SUPERIOR CHAPTER

A meeting of Superior chapter of the California Association of Nurserymen was held November 19 at Parisi's restaurant, Sacramento, with President Tak Kato, Kato Nursery, presiding. The members chose this evening to honor Peter Lagomarsino, 74, the senior member of the Lagomarsino family that contributed much in the field of agriculture and horticulture. Seventy-two persons attended the meeting.

Fred Wittsche, Sierra Gardens Nursery, Sacramento, reported that his committee has selected the slogan, "Depend on Your Nurserymen," to be used to promote public acceptance of buying plants from nurseries rather than non-nursery outlets.

The meeting was then turned over to Elmer Merz, executive secretary of the C. A. N., who presented the program of the evening. Mr. Merz pointed out that F. Lagomarsino & Sons Nursery has just closed its doors after more than 70 years as leaders in the seed trade and horticultural field. The business was founded in 1888, when the father, Felice Lagomarsino, started growing fruits, vegetables and vegetable seeds on a 50-acre ranch near Sacramento. The

five brothers, Peter, John, Andrew, Fred and Louis, took an active part in the business as soon as they were able to work.

The original retail store was at Third and J streets until 1927, when operations were moved to Seventh and J streets. When the greatly expanding activities required a new location in 1947, the business was moved from downtown to enlarged quarters on Alhambra boulevard. As a pioneer seed firm, the business was instrumental in bringing some of the state's major crops to California, particularly ladino clover and bird's-foot trefoil, vitally important to the state and to the nation. Another important crop pioneered to great extent by this firm in California was asparagus.

At this time Mr. Merz presented to Mr. Lagomarsino an honorary life membership in the California Association of Nurserymen; following

this award Mayor Clarence Azevedo of Sacramento presented a key to the city to Mr. Lagomarsino and spoke a few words of congratulations.

Guests of the Superior chapter present also to pay tribute were Al Morrison, county commissioner of Sacramento county; Stanley Mather, assistant chief of the state bureau of nursery service, and Cyril Coyle, local attorney, who acted as legal adviser for many years for the Lagomarsinos. A congratulatory letter from W. C. Jacobsen, director of the state department of agriculture, was read.

The special prize of a 3-volume set of Bailey's "Cyclopedia," donated by Dick and George Oki, Oki Nursery, Perkins, was won by Fred Wittsche. The meeting was adjourned after the announcement was made that the annual Christmas party will be held at the Tuesday Clubhouse, Sacramento, December 17.

A. Gus Kolb, Sec'y.

BAY AREA NEWS

Pat and Rudolph Flynn, of the San Rafael Nursery, San Rafael, Calif., have renovated the lath shelter in their nursery. The cost of several thousand dollars included the removal of some large trees that cre-

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ated dense shade over part of the area. The new structure permits the customer entering the nursery to see all the way to the rear. This has increased the foot traffic in the back areas and has increased sales.

The West End Nursery, San Rafael, under the ownership of Karl Untermann, is undergoing a gradual change. An over-all plan, by nursery designer Ernest Wertheim, incorporates the old barn, which is used as the store and warehouse, in a completely new salesyard. Each unit is being added during an off season at the nursery, most of the construction being done by the owner.

The Cove Nursery, Tiburon, under the ownership of George Coleman, will soon move into a new store. This will make more of the nursery salesyard visible to the customer entering the store. The previous layout made a back yard of much of the nursery area and resulted in a lower foot traffic.

Mann's Nursery, Petaluma, will move into a new retail salesyard this winter. The former retail yard on the old 101 highway will be devoted to wholesale business. The new sales area, located on Washington street at Petaluma, is of unusual design. It will serve also as a display area for landscape ideas.

A completely reconstructed nursery will be the result of several years of planning when the E. L. Egger & Son Nursery, Mill Valley, starts to take down its old buildings. Much of the area will be filled to a new level to prevent flooding from a nearby creek. The nursery, under the management of James Egger, also operates a branch at Kentfield.

H. W.

CHRISTMAS TREE TEST

Since the gold rush days, it has been the custom in California to get Christmas trees from the higher altitudes in the state or from Oregon. As tree conservation practices became accepted as a way of life and as the number of trees needed increased, it became a greater problem each year to supply the demand. In the post-war years it has become necessary to cut the trees early in the fall and to store them in an area where they would be protected from snow until they could be brought to the lowland urban markets. This added to the costs, as did the higher cost of transportation and the added mileage of the haul resulting as the sources got farther away from the larger markets. As a consequence, less valuable agricultural land at sea level was tested for its possibili-



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ties as Christmas tree producing areas, and several sites in Santa Cruz and San Mateo counties have in the past few years profitably produced a sizable number of trees.

The latest area tested for this purpose is the Lafayette region in Contra Costa county, and there it appears that Christmas trees also can be profitably produced. The results of two years' tests on the A. S. Russell ranch were told at a meeting there November 18, when Dr. Edward E. Gilden, extension forester, University of California; Milton Bell, Contra Costa county farm adviser, and Al Bianchi, ranch foreman, reported on the several phases of the work. In charge of the meeting was Howard Nielson, Santa Cruz county Christmas tree grower and president of the California Christmas Tree Growers' Association. The attendance of nearly 100 persons included growers and prospective growers from all parts of the state, as well as dealers and handlers of Christmas trees.

The plants used in this operation were year-old trees of several species set out two years ago on poorly productive agricultural land lacking irrigation. The faster-growing kinds average six to seven feet in height, are well shaped and have a sturdy, healthy appearance. Three of the species tried are slower growing and will not be of a usable size until 1960 or 1961.

W. B. B.

CALIFORNIA NOTES

The proposed increase in airline cargo rates has been deferred until December 30. The increases would raise the rates on nursery stock by 6½ per cent.

Harry Rose, Berkeley fuchsia grower and breeder, addressed the St. Helena branch (Oakland) of the American Fuchsia Society on "New Introductions for 1959" at its November 17 meeting.

Prof. H. M. Butterfield, of the University of California extension service, addressed the Berkeley Garden Club on "Seven Methods of Plant Propagation."

James Kerr, bay area TV and radio garden commentator and owner-manager of Kerr Seeds, San Mateo, addressed the Garden Society of Marin on "Fall in the Garden" and the San Francisco Business Men's Club on "Lawn Problems." After the serious disease problems that troubled the bay area bluegrass lawns in the past summer, Mr. Kerr is promoting clover and diondra.

Two east Palo Alto boys were accused of causing about \$1,000 worth

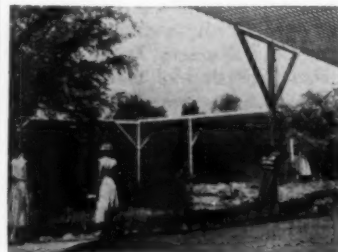
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of damage to about 400 plants at the John Edwards camellia nursery at East Palo Alto.

Clifford Nelson, Nelson Nursery, San Leandro, has returned from an extensive buying trip in southern California.

Everett Farwell, who at one time operated nurseries at Burlingame and Oakland, is now head salesman for the Decorative Plant Rentals Co., Hayward. This firm is operated by Frank James, who operated the E. James & Sons Nursery, Oakland, until the land was sold for building purposes.

Dr. R. R. Sanborn, department of entomology, University of California, spoke on the peach tree borer at the November meeting of the California Entomology Club. At the same meeting Dr. D. J. Raski, nematologist at the university, reported on some recent studies on nematode transmission of grape fanleaf, a serious problem in the wine grapes of the state.

State-wide control of outdoor advertising was discussed at the meeting sponsored by the California roadside council. The issue of statewide control has come to the fore with the passage by Congress of a provision in the 1958 federal aid to interstate highways act offering an additional $\frac{1}{2}$ of 1 per cent in federal funds to states which meet federal standards in control of outdoor advertising.

Surplus Nursery Sales, 2401 Pulgas avenue, East Palo Alto, held a widely advertised "We Quit" sale during the first three weeks of November. The nursery reports that everything will be sold out and the nursery will be closed when the lease expires December 31.

The California state park commission has approved the acquisition of over 3,000 acres for the expansion of Mount Tamalpais State Park in Marin county.

Peters & Wilson Nursery, Millbrae, has issued its annual fall rose list for 1959. Prices are slightly higher this year.

The University of California has developed a bowl-type orchard heater which it calls a return stack orchard heater. It has been found reliable over long periods of time and protects crops from frost damage without an objectional amount of smoke. Farm advisers who have used the equipment report it does a good job, but add that the cost of the heaters must be carefully weighed against the value of the crop to be saved. It has been used in lath houses to protect azaleas, as well

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343 S. Dearborn St. Chicago 4, Ill.as in orchards to protect citrus and
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Drs. R. N. Jefferson and F. S. Morishita have found that certain silica gels are satisfactory in the control of spider mites on ornamentals. They report, too, that the materials are of such a nature that it is not likely that resistance will be built up soon by the mites, that the gels are low in human toxicity (though use of a mask is recommended), that to date they have caused no visible damage to the crops on which they have been tested, that they are effective in the control of drywood termites and fruit flies, that they do not affect the eggs of the spider mites and that they are as yet not available in commercial channels.

About 200 San Joseans turned out recently to serve as volunteer tree planters for the Kelley Estate park. About 700 trees went into the ground to make the start of one of the most important of the San Jose city parks. It now contains 150 acres, and among the earliest projects is a Happy Hollow children's creative playground.

South San Francisco's superintendent of parks and recreation, Duane Mattison, reports the completion of the first phase of the fall rehabilitation of the city's parks with the turfing of eight parks and the paving of walks and play areas at a cost of \$27,000. The rest of the \$40,000 appropriation will be spent next spring.

W. B. B.

OREGON NOTES

At the last meeting of the Clackamas chapter of the Oregon Association of Nurserymen, held at Seid's restaurant, Oregon City, Robert Smith, Clackamas county agent, introduced as the speaker of the evening Lloyd Baron, county extension agent, Hillsboro, who showed slides on and discussed chemical weed control on nursery crops. Most promise, in Oregon, to date, has been shown with Karmex DW and Simazine used at the rate of two pounds of actual product per acre. He urged caution with the use of these materials and also suggested that small, trial applications be made first. Wayne "Duffy" Arnold, Arnold's Nursery, Milwaukie, showed pictures of Hawaiian plants and flowers. Chapter President Ivan Arneson, Arneson's Nursery, Canby, has appointed Lawrence Effinger, Hood View Acres, to take charge of entertainment to be given by the chapter at the O. A. N. convention at Eugene January 8 and 9. The December meeting of the chapter has

been canceled, and the next one is scheduled for February 24, 1959.

New address for the Clear Vue Acres Nursery is 65 Clear Vue, Eugene.

Considerable space in the November 9 issues of the Oregon Journal's Northwest Living magazine and the Oregonian's Home and Garden magazine was devoted to roses. A picture in Northwest Living was that of an arrangement of Audie Murphy roses, a patented rose of Roseway Nurseries, Beaverton. Two other pictures were of roses patented by Peterson & Dering, Scappoose. The Home and Garden section contained a full-page story about Roseway Nurseries and Mr. and Mrs. Henry Hausch, who own and operate the firm.

Both Northwest Living and the Home and Garden magazine carried pictures of the newly installed officers of the Landscape Gardeners' Association of Portland and an article about the installation meeting. New officers are Lawrence Underhill, president; John Carle, vice-president; Riley Stevens, secretary, and Frank Tooze, treasurer.

The December issue of Popular Gardening magazine contains articles by four men well-known in the Oregon nursery business: Dean Collins, feature writer of the Oregon Journal and honorary member of the Oregon Association of Nurserymen; R. C. Kalmbach, curator, Portland International Rose Test Gardens; Ambrose Brownell, Brownell Holly Farms, Milwaukie, and Carl Starker, florist and nurseryman, Oak Grove. The articles deal with the Oregon Centennial's "Garden of Tomorrow," the rose test garden, Oregon holly and Oregon holiday decorations.

An article in the November 16 issue of the Oregon Journal told about Camellia sasanqua and was accompanied by a picture of a specimen plant grown by P. L. Van der Bom, Voterbeck & Van der Bom, wholesale nursery, Portland.

C. H. P.

GARDEN DALE, a nursery at 4900 Florin road, Sacramento, Calif., was opened recently by Dick Botteri, a registered landscape contractor.

DISPLACED by freeway construction, the former Goleta Feed & Nursery business has been moved to 5718 Hollister avenue, Goleta, Calif., by Tom Hirashima and will in the future be operated as the Goleta Garden Center. A modern concrete block and glass building will be four times the size of the former sales quarters.

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Forms for February 1 issue will close Friday, January 9.

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1-yr. seedlings, 6 to 10 ins., special permit\$5.00 \$40.00
Special quotations on larger quantities.

HESS' NURSERIES

P. O. Box 128 Wayne, N. J.
Barberry liners, Crimson Pigmy, julianae, julianae nana, mentorensis.
Please see complete list on page 59.
Templeton, Phytotektor, Winchester, Tenn.

BERRY PLANTS

BERRY PLANTS

	No. 1	1/4-in. suckers cal. up
Per 1000 Per 1000		
RED RASPBERRY		
Latham, Taylor, Durham	.....\$55.00	\$65.00
Indian Summer, Milton	..... 60.00	70.00
September, Canby	..... 70.00	80.00

Per 1000
BLACK RASPBERRY
Cumberland, Bristol, No. 1 tips\$ 45.00

PURPLE RASPBERRY
Sodus, No. 1 tips 50.00
Burgundy (patent No. 570198), No. 1 tips 100.00

BLACKBERRIES
Bailey, Hedrick, Ebony King.
No. 1 rooted cuttings 100.00
Early Harvest, Eldorado,
No. 1 rooted cuttings 40.00

Send for complete list of bush fruits and flowering shrubs.
CONGDON'S WHOLESALE NURSERY
North Collins, N. Y.

RASPBERRIES

	Per 100	Per 1000
September, 3/16 to 1/4-in.	.....\$ 7.00	\$65.50
1/4-in. up	..... 9.00	70.00
transplants	..... 11.50	90.00
Indian Summer, No. 1	..... 9.00	70.00
Rhubarb Canada Red, 300 divs.	..... 25.00	225.00

Free packing. Cash, please.

WHEELOCK WILSON NURSERY
Marshalltown, Ia.

Blueberries, red Raspberries, black Raspberries, Grapevines, Rhubarb, Asparagus, Horseradish and Gooseberries. Refer to our priced ad on page 60.

Krieger's Wholesale Nursery, Bridgman, Mich.

Certified Raspberry canes, No. 1 grade: Newburgh and Viking, \$50.00 per 1000; 10,000, \$45.00 per 1000; 20,000, \$40.00 per 1000. Packing free. W. H. Perron & Co., Ltd., 515 Labelle Blvd., L'Abord a Plouffe (Montreal 9), P. Q.

BULBS AND TUBERS

HOLLAND-GROWN BULBS

DARWIN TULIPS, first size, 11 to 12 cm., 5c each, \$4.50 per 100 of one variety. Jubilee (blue), Wm. Pitt (red), Pride of Haarlem (deep rose), Yellow Giant (yellow), Princess Elizabeth (rose), Wm. Copland (lavender), Queen of the Night (blue-black), Bartigon (dark red), Clara Butt (pink).

PARROT TULIPS, 7 1/2 c each. Blue Parrot (blue), Orange Favorite (orange), Sunshine (bright yellow), Red Champion (red), Black Parrot (blue-black).

REMBRANDT TULIPS, 7 1/2 c each. Cordell Hull (variegated white and red). TULIPA FOSTERIANA, 10c each. Red Emperor (large scarlet).

COTTAGE TULIPS, 7 1/2 c each. G. W. Leak (crimson and orange), Carrara (white), Marjorie Bowen (yellow edged scarlet).

BREEDER TULIPS, 5c each. Dillenburgh (orange-scarlet). TRIMPH TULIPS, 5c each. Kansas (white).

CROCUS, blooming size, 7 to 8 cm., 4c each. King of the Blues, King of the Whites. MUSCARI (Grape Hyacinth), 2c each. SNOWDROPS, 4c each.

SCILLA (Camp. mixed), 2 1/2 c each. GIANT YELLOW TRUMPET DAFODILS. King Alfred, 6 1/2 c each, \$6.00 per 100. Golden Harvest, Solaris and Music Hall, 7 1/2 c each, \$7.00 per 100.

DUTCH IRISES, 8 to 9 cm., 5c each. Golden Harvest, White Excelsior, Wedgewood.

HYACINTHS, bedding size, 15 to 16 cm., 10c each. Pink Pearl (deep rose), La Victoire (carmine-red), L'Innocence (pure white), Bismarck (sky-blue), King of the Blues (deep blue), City of Haarlem (golden yellow).

American-grown MADONNA LILY, jumbo size, blooms Decoration day, 35c each. American-grown REGAL LILIES, 15c each.

BENTON COUNTY NURSERY CO.
Rogers, Ark.

TUBEROUS BEGONIAS

Giant double-flowering (Camellia type), 8 colors. 1 1/2 to 1 1/2-in.\$ 8.00 \$ 49.00
1 1/2 to 2-in. 9.50 83.00
2 to 2 1/2-in. 14.00 130.00
Mammoth, 2 1/2-in. up 25.00 200.00

Double-flowering Fimbriata (Carnation type), 6 colors.
1 1/2 to 1 1/2-in.\$ 7.50 \$ 65.00
1 1/2 to 2-in. 11.50 100.00
2-in. up 15.00 140.00

Picotee (true Camellia type), two-toned, rose and white.
1 1/2 to 2-in.\$13.50 \$125.00
Pendula (Hanging Basket type), 5 colors.

1 1/2 to 2-in.\$13.50 \$125.00
Multiflora hybrids (Lilliput or miniature), reds, salmon, yellow.

1 1/2-in. and up\$13.50 \$125.00
Minimum order \$5.00 of a type.

GLOXINIAS

The best leading commercial varieties.
Per 100 Per 1000
1 1/2 to 1 1/2-in.\$ 7.50 \$ 65.00
1 1/2 to 2-in. 14.00 130.00
2 to 2 1/2-in. 22.00 200.00
Mammoth, 2 1/2-in. up 30.00 275.00

Minimum order \$5.00 of a size.

FANCY-LEAVED CALADIUMS
The finest new commercial named varieties. Over 75 varieties, regular and lance-leaved. Absolutely free from disease. Send for color chart with cultural directions.

	Per 100	Per 1000
No. 3, 1/2 to 1-in.	.....\$ 7.00	\$ 60.00
No. 2, 1 to 1 1/2-in.	..... 9.00	100.00
No. 1, 1 1/2 to 2 1/2-in.	..... 15.00	160.00
Jumbo, 2 1/2 to 3 1/2-in.	..... 25.00	230.00
Mammoth, 3 1/2-in. up	..... 37.00	350.00

Minimum order \$5.00 of a size.
If parcel post shipments requested, include charges.

LOUIS DANK
1170 Broadway New York 1, N. Y.

CAMELLIAS

CAMELLIA LINERS

More than 50 varieties of Camellias and Sasanqua liners available, in pots, grown in sterilized soil.

ALSO

Send for our complete listing on these and other fine liners and container-grown stock.

COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

CHRYSANTHEMUMS

HARDY CHRYSANTHEMUMS

We are growing 75 varieties of Chrysanthemums in the open field. Over 100,000 field-grown clumps available, at \$12.00 per 100, \$100.00 per 1000.

WALTERS GARDENS

R. R. 2, Zeeland, Mich.

DELPHINIUMS

NEW CROP SEED

LYONDEL GIANT HYBRID DELPHINIUM

Exceptionally large flowers; wide range of beautiful colors; doubles, semi-doubles and singles.

This seed from carefully selected plants which have withstood droughts and tough winter elements, will germinate practically 100 per cent if sown now or next spring. No refrigeration is necessary to keep it. If you haven't grown these Lyondel Hybrids, enjoy the heat by test!

MIXED COLORS ONLY

\$20.00 per oz., \$11.00 per 1/4 oz.; 1/4 oz., \$6.00. Field-grown plants for spring shipment, \$200.00 per 1000, \$22.50 per 100; doz., \$3.75.

CORLISS BROS., INC., NURSERIES

Reynard St., Gloucester 4, Mass.

SHADE GARDEN PLANTS

VARIEGATED PITTSPOURUM

Just the right size and colorful for your dish gardens.

2 1/2-in. plastic pots, \$15.00 per 100.

FREE PACKING

COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

Watch Your Results From

American Nurseryman Classified Ads.

DOGWOODS

CORNUS FLORIDA RUBRA (1-YR.)

(RED-FLOWERING DOGWOOD)

Each, 100 1000

6 to 12 ins., bare-root \$0.45 \$4.00

12 to 18 ins., bare-root55 .50

18 to 24 ins., bare-root80 .75

24 to 30 ins., bare-root 1.00 .90

WHITE DOGWOOD, liners, 4.00 30.00

6 to 12 ins., 4.00 30.00

RED-FLOWERING DOGWOOD

Dormant buds, budded August, 1958.

\$20.00 per 100, \$175.00 per 1000.

2-YR. CORNUS FLORIDA RUBRA

Each, 100 1000

3 to 4 ft., bare-root \$2.00 \$1.75

4 to 5 ft., bare-root 2.50 2.25

2-YR. CORNUS FLORIDA, WHITE

18 to 24 ins., bare-root \$0.30 \$0.25

2 to 3 ft.,50 .45

3 to 4 ft., 1.10 1.00

CHOCOLA NURSERY

Winchester, Tenn.

FALL SPECIAL

20,000 DOGWOOD

Each, per 100

CORNUS FLORIDA

6 to 8 ft., row-run \$3.00

8 to 10 ft., extra heavy 6.00

CORNUS FLORIDA RUBRA

6 to 8 ft., row-run 6.00

8 to 10 ft., extra heavy 12.00

(B&B, 75c per tree.)

VOYTESHARK FARM NURSERIES

Corner of Naugatuck Ave. and

West Rutland Rd.

Milford, Conn.

Phone TRinity 4-3493

DOGWOOD

Cornus florida Per 100 Per 1000

30,000 1-yr., s. 8 to 12 ins. \$ 4.50 \$ 35.00

understock 5.00 45.00

20,000 2-yr., s. 12 to 18 ins. 6.50 60.00

20,000 2-yr., s. 18 to 24 ins. 9.00 85.00

20,000 2-yr., s. 24 to 36 ins. 14.00 130.00

4 1/2 to 5 ft., B&B 275.00

5 to 6 ft., B&B 325.00

Cornus florida rubra

3 1/2 to 4 ft., B&B 250.00

4 1/2 to 5 ft., B&B 325.00

PETER BROUWER'S NURSERIES

24 Lester St. New London, Conn.

EVERGREENS, Liners

EVERGREEN LINERS AND CUTTINGS

POT-GROWN STOCK

Each, 100 1000

Stock from 2 1/2-in. pots

Arborvitae, American, dark green.

2-yr., 7 to 9 ins. \$0.30 \$0.28

pyramidal, 2-yr., 7 to 9 ins.30 .28

Juniperus pfitzeriana, Armstrong's, 2-yr.30 .28

Juniperus chinensis pfitzeriana, 2-yr.30 .28

Juniperus glauca hetzi, 2-yr.30 .28

7 to 9 ins.30 .28

Taxus hatfieldi, 2-yr., 5 to 6 ins.30 .28

Taxus intermedia, 2-yr., 5 to 6 ins.30 .28

Taxus columnaris, Adams', 2-yr., 5 to 6 ins.30 .28

Taxus media wrightii, 2-yr., 5 to 6 ins.30 .28

Taxus media hetzi, 2-yr., 5 to 6 ins.30 .28

Taxus media, 2-yr., 5 to 6 ins.30 .28

Euonymus alatus compactus, 2-yr.22 .20

Boxwood, Korean, 2-yr., 3 ins.22 .20

Buxus sempervirens, 2-yr., 4 ins.22 .20

HEAVY ROOTED CUTTINGS

From flats, growing outside in lath house.

Boxwood, Korean, hardy, 3 ins. \$0.09 \$0.08

Juniperus glauca hetzi, 6 ins.13 .12

Arborvitae elegantissima, 6 ins.13 .12

Taxus hickel, 5 to 6 ins., ready13 .12

Taxus intermedia, 5 to 6 ins., ready13 .12

Taxus cuspidata, 5 to 6 ins., ready13 .12

Taxus andersoni, 5 to 6 ins., ready13 .12

Taxus media, 5 to 6 ins., ready13 .12

Taxus hatfieldi, 4 to 5 ins.13 .12

Taxus browni, 4 to 5 ins.13 .12

Taxus capitata fastigiata, 4 ins.13 .12

TERMS: Packing and boxing free, 3 per cent discount for cash with order.

250 plants of each variety at 1000 rate.

MIAMI NURSERY CO.

Tipp City, O.

EVERGREENS

ROOTED CUTTINGS Per 100 Per 1000

Arborvitae woodwardi \$0.09 \$0.08

Arborvitae pyramidalis, 6 to 8 ins.10 .09

Juniperus pfitzeri, 6 to 8 ins.11 .10

Juniperus hetzi, 6 to 8 ins.11 .10

Juniper, Andorra, 6 to 8 ins.11 .10

Juniper, Swedish, 6 to 8 ins.11 .10

Taxus cuspidata, 6 to 8 ins.09 .08

Taxus capitata (leaders), 6 to 8 ins.12 .12

Taxus hickel, 6 to 8 ins.09 .08

Taxus browni13 .12

1-YR.

Arborvitae woodwardi17 .16

Arborvitae pyramidalis17 .16

Taxus cuspidata20 .18

Taxus hickel20 .18

2-YR.

Arborvitae woodwardi, 8 to 10 ins.25 .23

Arborvitae pyramidalis, 10 to 12 ins.27 .25

Taxus cuspidata, 8 to 10 ins.27 .25

Taxus hickel, 8 to 10 ins.28 .28

Juniperus hetzi, 8 to 10 ins.30 .28

Euonymus alatus, 12 to 15 ins.30 .28

GRAFTED SPRUCE, \$1.25 each.

Koster Blue Spruce Moerhous Blue Spruce

GRAFTED JUNIPERS Per 100 Per 1000

Juniperus canneri \$0.55 \$0.50

Juniperus burki55 .50

Juniper, Dundee55 .50

Juniperus ceteleeri55 .50

50 of a variety at 100 rate. 300 of a variety at 1000 rate. Write for quotations on lots of 2500 or more.

DRAKE'S NURSERIES

G-4342 Branch Rd.

Flint 6, Mich.

TAXUS CAPITATA SEEDLINGS

2-yr., 3 to 6 ins. \$10.00 \$ 8.00

3-yr., 6 to 12 ins. 16.00 120.00

POTTED LINERS

2 1/2-in. rose pots.

Per 100 Per 1000

Taxus media Adams \$24.00 \$220.00

Taxus media andersoni 20.00 180.00

2-yr., 6 to 12 ins. 24.00 220.00

Taxus media browni 20.00 180.00

1-yr., 4 to 6 ins. 20.00 180.00

3-yr., 6 to 10 ins. 25.00 230.00

Taxus cuspidata 20.00 180.00

1-yr., 4 to 6 ins. 20.00 180.00

2-yr., 6 to 12 ins. 24.00 220.00

Taxus cusp. capitata, edig.-grown

3-yr., 4 to 8 ins. 27.50 250.00

Taxus hatfieldi 20.00 180.00

1-yr., 4 to 6 ins. 20.00 180.00

2-yr., 6 to 10 ins. 25.00 230.00

Taxus media hatfieldi No. 18 20.00 180.00

1-yr., 4 to 6 ins. 20.00 180.00

2-yr., 6 to 10 ins. 25.00 230.00

Taxus media hatfieldi No. 21 20.00 180.00

2-yr., 6 to 10 ins. 25.00 230.00

Taxus media hickel 20.00 180.00

1-yr., 4 to 6 ins. 20.00 180.00

2-yr., 6 to 12 ins. 24.00 220.00

Taxus media hunekei 20.00 180.00

1-yr., 4 to 6 ins. 20.00 180.00

(Continued in next column)

(Continued from previous column)

Taxus intermedia

1-yr., 4 to 6 ins. 20.00 180.00

2-yr., 6 to 12 ins. 24.00 220.00

Taxus media kelleyi

1-yr., 4 to 6 ins. 20.00 180.00

Taxus media Moon's columnaris

1-yr., 4 to 6 ins. 20.00 180.00

Taxus media thayerae

1-yr., 4 to 6 ins. 20.00 180.00

2-yr., 6 to 12 ins. 24.00 220.00

Taxus cusp. vermiculata

1-yr., 4 to 6 ins. 20.00 180.00

Taxus media wardi

1-yr., 4 to 6 ins. 22.50 200.00

Taxus media welleriana

1-yr., 4 to 6 ins. 20.00 180.00

Taxus media wrightii

1-yr., 4 to 6 ins. 22.50 200.00

Juniperus horizontalis plumosa

1-yr., 4 to 6 ins. 20.00 180.00

Juniperus communis depressa aurea

1-yr., 6 to 10 ins. 20.00 180.00

Juniperus glauca hetzi

1-yr., 4 to 6 ins. 20.00 180.00

Juniperus chin. Nelson

1-yr., 4 to 6 ins. 22.50 200.00

Juniperus chin. pfitzeriana

1-yr., 4 to 6 ins. 20.00 180.00

2-yr., 6 to 10 ins. 24.00 220.00

Thuja occ. Douglas Golden

1-yr., 4 to 6 ins. 20.00

Thuja occ. elegantissima

1-yr., 4 to 6 ins. 20.00 180.00

Thuja occ. hetzi Winter Green

1-yr., 4 to 6 ins. 20.00 180.00

Thuja occ. pyramidalis

1-yr., 4 to 6 ins. 20.00 180.00

Thuja occ. woodwardi

1-yr., 4 to 6 ins. 20.00 180.00

FIELD LINERS

Taxus media Adams

3-yr., TT. 8 to 12 ins. 35.00 325.00

Taxus media andersoni

3-yr., TT. 6 to 12 ins. 35.00 325.00

Taxus media browni

3-yr., TT. 8 to 12 ins. 35.00 325.00

Taxus cuspidata

3-yr., TT. 6 to 12 ins. 35.00 325.00

Taxus media hatfieldi No. 18

EVERGREENS, Liners—Continued

EVERGREEN LINERS		
	Each	100 1000
POTTED LINERS, 2½-in. pots		
Pfitzer Juniper	\$0.25 \$0.20
Burk Juniper, 2-yr.25 .20
Woodward Globe Arborvitae21 .16
Pyramidal Arborvitae22 .17
Dark green American Arborvitae22 .17
Hetz glauca Juniper23 .18
POTTED LINERS, 2-in. pots		
Biota aurea nana, 2-yr.23 .18
Armstrong Pfitzer Juniper, 2-yr.23 .18
FIELD-GROWN LINERS, from pots and 2-yr. nursery row.		
Biota aurea nana45 .40
Pfitzer Juniper45 .40
Armstrong Pfitzer Juniper65 .50
Woodward Globe Arborvitae45 .40
FIELD-GROWN LINERS, from pots and 1-yr. nursery row.		
Biota aurea nana35 .30
Pfitzer Juniper35 .30
Woodward Globe Arborvitae35 .30
Armstrong Pfitzer Juniper45 .40
ROOTED CUTTINGS, heavy rooted cuttings in lath house, ready now.		
Pfitzer Juniper12 .11
Pyramidal Arborvitae11 .10
Woodward Globe Arborvitae10 .09
Dark green American Arb.11 .10
Taxus brownii10 .09

TERMS: Cash with order. Free packing.

300 plants of a variety at 1000 rate.

Write for special prices on large quantities.

VOGE NURSERY

New Lebanon, O.

EVERGREENS		
	4 to 6 ins.	6-8 to 10-in. tr. 10-12, tr.
Biota, Berckmans	10c 15c 20c
aurea nana	7½c 10c 15c 30c
bonita	7½c 10c 15c 30c
bakeri	7½c 10c 15c 30c
excelsa	7½c 10c 14c 18c
siibylli	7½c 10c 14c 18c
Juniperus		
excelsa stricta	8c 10c 15c 20c
glauca hetzi	9c 14c 18c
pfitzeriana	9c 14c 18c
Juniper, Andorra	9c 14c 18c
Ilex rotundifolia	9c 12c
Ilex burfordii	9c 12c
Ligustrum lucidum	9c 12c
Pyracantha	8c 12c
Cherry Laurel	8c 10c
seedlings	8c 10c
Camphor, seed.	8c 10c

Prices: Above prices are for 100 lots. Add 1c for less than 1000 to items 10c or less. Add 2c for less than 1000 to items over 10c. Prices and sizes subject to change without notice.

THE BUSH RANCH

140 Woodland Dr. Thomasville, Ga.

James W. Lawson, Mgr. Phone Canal 6-4245

FIELD-GROWN LINERS		
	Each	100 1000
Greek Juniper, 6 to 8 ins.	\$0.12 \$0.10
Hetz Juniper, 6 to 8 ins.14 .12
Savin Juniper, 8 to 12 ins.12 .10
Savin Juniper, 6 to 8 ins.08 .07
Pfitzer Juniper, 4 to 8 ins.14 .12
Polish Juniper, 12 to 15 ins.12 .10
Ashford Juniper, 8 to 12 ins.12 .10
Andorra Juniper, 8 to 12 ins.12 .10

BED-GROWN		
	Each	100 1000
Ilex rotundifolia (Jap. Holly)12 .10
Burford Holly (Chinese)12 .10
Sargent Barbary12 .10
Ilex bullata (Holly)12 .10

POTTED PLANTS (2½-IN.)		
	Each	100 1000
Andorra Juniper17 .15
Sargent Barbary20 .18
Burford Holly15 .13
Mahonia Holly17 .15
Yaupon Holly17 .15
Magnolia16 .15

Packing and boxing free. 2 per cent discount for cash with order. 250 plants of each variety at 1000 rate.

GRANT'S NURSERY

Route 2 Caledonia, Miss.

JUNIPER GRAFTS

Varieties: Canari, glauca, Dundee, keteleeri, columnaris, blue, burki, armstrongii, Pfitzer, Vase Juniper and our own Blue Globe Juniper, \$45.00 per 100, \$400.00 per 1000; 500 at 1000 rate. F.O.B. Warsaw, Ky. Terms: 25 per cent deposit with order, balance at spring shipping time. Packing free.

ARROW-WOOD NURSERIES

Route 1 Warsaw, Ky.

LARGE TAXUS LINERS

3 and 4-yr. transplants, field-grown from cuttings; selected strain.

	Each	100 1000
Cuspidata, 12 to 15 ins.	\$0.70 \$0.65
Cuspidata capitata, 8 to 12 ins.55 .50
Cuspidata capitata, 12 to 18 ins.75 .70
Cuspidata capitata, 18 to 24 ins.85 .80
Media hickii, 12 to 18 ins.70 .65

Samples at cost.

BULK'S NURSERIES

610 W. Montauk Highway Babylon, N. Y.

HEAVILY ROOTED CUTTINGS
4 to 10 ins. sturdy, selected cuttings with plenty of good roots. Really should pot them ourselves, but haven't the time or room. Yours for only \$85.00 per 1000; 5000 or more, \$75.00 per 1000.

TAXUS: 250 cuspidata, 200 capitata, 300 andersonii, 350 brownii, 1250 kelseyi, 3000 hatfieldii, 1500 intermedia, 2300 densiformis, 3500 vermeulenii.

ILEX: 300 crenata, 1000 convexa, 500 Glass, 1000 helleri, 500 hetzi, 300 latifolia, 300 microphylla, 300 rotundifolia.

JUNIPERS, \$110.00 per 1000: 500 Bar Harbor, 350 Andorra, 375 glauca hetzi, 350 pfitzeriana, 950 pfitz. comp. armstrongii, 450 pfitz. comp. Kallay, 750 pfitz. glauca, 375 virg. kosterii.

JOHN VERMEULEN & SON, INC.

Neshanic Station, N. J.

Finer liners since 1921

QUALITY BARE-ROOT CONIFERS

1-yr. seedlings Per 100

Monterey, caribaea, Coulter, elliptica, Jeffrey Pines, 4 to 8 ins. \$ 6.00

Arizona Cypress, Douglas Fir, 4 to 8 ins. 6.00

Big Tree Redwood, 2 to 4 ins. 10.00

2-yr. seedlings

Colo. Blue and White Spruce, 4 to 8 ins. 8.00

Himalayan, mugho, Beach Pines, 4 to 8 ins. 10.00

Jap. Black, Jap. Red, Scotch, Table Mtn., Austrian Black Pines, 4 to 8 ins. 7.50

Monterey Pine, 12 to 14 ins. 10.00

(25 other Pine species available.)

Bonsai-type distorted Jap. Black, Jap. Red, Scotch, Beach Pines. 10.00

EVERGREEN FARMS

(PINTO TAG NURSERY)

P. O. Box 497 Palo Alto, Calif.

EVERGREENS, ROOTED CUTTINGS

Arborvitae, American, dark green; 6 to 10 ins. \$0.10 \$0.09

Arborvitae, pyramidal, 6 to 10 ins. .10 .09

Arborvitae, globe, 4 to 8 ins. .09 .08

Juniper, Hetz, 6 to 10 ins. .09 .08

Juniper, Pfitzer, 6 to 10 ins. .10 .09

Juniper, Savin, 6 to 10 ins. .09 .08

Juniper, Von Ehren, 6 to 10 ins. .10 .09

Juniper, Andorra, 6 to 10 ins. .09 .08

Taxus cuspidata, 6 to 10 ins. .09 .08

Taxus huneuwalliana, 6 to 10 ins. .09 .08

Taxus hicksii, 6 to 10 ins. .11 .10

Taxus capitata (leaders), 6 to 10 ins. .13 .10

250 at 1000 rate. Spring delivery.

3 per cent discount, cash with order.

DE WINTER'S NURSERY

653 Port Sheldon Rd. Grandville, Mich.

EVERGREENS

Cedrus deodara, 6 to 8 ins., s. \$10.00

Juniperus glauca hetzi, 2-yr. 12.50

bed-grown, 8 to 12 ins. 15.00

Juniperus chin. pfitzeriana, 2-yr. 20.00

bed-grown, 8 to 12 ins. 20.00

Juniperus horizontalis plumosa (Andorra), 8 to 12 ins. 15.00

Podocarpus sinensis, 8 to 12 ins. 15.00

Retinospora ericoides, 8 to 12 ins. 20.00

COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

PINE, SPRUCE SEEDLINGS

AND LINERS 100 1000

Scotch Pine, 3-yr., 8 to 14 ins. \$ 6.00 \$35.00

Colo. Blue Spruce, 4-yr., 6 to 12 ins. 8.00 55.00

Norway Spruce, 3-yr., 6 to 12 ins. 6.00 40.00

Juniperus glauca hetzi, 2-yr. 25.00

Spreading Jap. Yew, 3-yr., 4 to 8 ins. 30.00

Write for complete list.

PAINT CREEK NURSERIES

R. D. 1 Shippensburg, Pa.

TAXUS

Each 100

Cuspidata, capitata, hickii 8 to 10 ins., 5-yr., lining-out. \$0.90

10 to 15 ins., 5-yr., lining-out. 1.25

row-run 1.00

Cuspidata, 4-yr., lining-out. .75

RICHARDSON NURSERIES, INC.

53947 Fir Rd., R. 1 Granger, Ind.

UNROOTED CUTTINGS, 6 TO 10 INS.

Junipers, Pfitzer and Andorra.

Pyracantha, islandi and small red berry. \$10.00 per 1000. Cash with order.

Shipped express collect.

Write for list of container-grown plants.

J. C. CARDEN NURSERY

3405 Albert Pike Port Smith, Ark.

EVERGREEN LINERS

10 to 12-in. Pfitzer, Savin and Compact Pfitzer, in 2½-in. pots, ready now or in spring.

RAU FLORAL AND NURSERY

4607 Savannah Rd. St. Joseph, Mo.

EVERGREENS

See our Classified ad in this issue under LINING-OUT STOCK.

T. G. OWEN & SON, INC.

Columbus, Miss.

Nandina domestica, extra nice, 4 to 6 ins., \$40.00 per 1000. Minimum order 500. Boston Mountain Nursery, Mountainburg, Ark.

DOUGLAS FIR
2-yr., field-grown, average 8 to 10 ins., graded. Root pruned. Very carefully packed. \$25.00 per 1000, F.O.B. Sheridan. \$100.00 per 5000, F.O.B. Sheridan. Order now. Spring, 1959, delivery. 5 per cent discount all cash orders.
FULTON V. SMITH, SHERIDAN, ORE.

EVERGREENS, B&B

PITZER AND HETZ JUNIPERS

	30-100	100 up
15 to 18 ins.	\$2.50 \$2.00
18 to 24 ins.	2.75 2.50
24 to 30 ins. (Pfitzer only)	2.75 2.50
18 to 24 ins. (Austrian, Scotch and Red Pine)	\$2.00 \$1.90
2 to 3 ft.	2.75 2.50
3 to 3½ ft.	3.75 3.50

IRISH JUNIPER

24 to 30 ins. \$1.50 \$1.25

R. R. BRUND SMITH NURSERY

R. R. Box 198 Muncie, Ind.

Phone AT 2-5144

EVERGREENS, Miscellaneous

CANADA HEMLOCK, SEEDLINGS

	Per 1000	Per 10,000
3 to 6 ins.	\$30.00 \$250.00
6 to 9 ins.	45.00 400.00
9 to 12 ins.	60.00 550.00
12 to 15 ins.	85.00

HEAVY B&B HEMLOCK

	1-10	10-100
18 to 24 ins.	\$2.50 \$2.25
24 to 30 ins.	3.00 2.75

SOERGER TREE SERVICE

Babcock Blvd. Gibsonsia, Pa.

Taxus, Ilex, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.

Del-Mar-Va Nurseries, Box 3, Lincoln, Del.

FRUIT AND NUT TREES

CHOICE FRUIT TREES

FOR FALL OR SPRING SHIPMENT

2-yr. and dormant bud Apple trees. Varieties as follows: Red Delicious, Yellow Delicious, Red June, Lodi, Red Jonathan and Twenty Ounce, 2 to 3 ft., 30c; 3 to 4 ft., 40c; 4 to 6 ft., 50c each. Mostly branched.

Dormant bud Pear trees, mostly branched and very nice. Varieties: Kieffer, Garber and Bartlett, 4 to 6 ft., 60c; 5 to 6 ft., 75c each. Some of the 5 to 6 will run 6 to 7 ft.

Dormant bud Peach trees. Varieties: Redhaven, Dixigem, Early Elberta, Golden Jubilee, Halehaven, Giant Hale, Elberta and Georgia Bell, 3 to 4 ft., 50c; 4 to 5 ft., 40c; 5 to 6 ft., 50c each.

June bud Peach trees. Varieties: Cardinal, Dixired, Dixigem, Early Elberta, Redhaven, Halehaven, Elberta, Giant Hale, Red Cap, Red Indian and Red Flowering, 12 to 18 ins., 15c; 18 to 24 ins., 20c; 2 to 3 ft., 25c; 3 ft. up, 30c each. These are extra clean and nice.

Grapevines, 2-yr.-old, No. 1 vines, 15c each. Varieties: Concord, Fredonia and Delaware. We have a few hundred Niagara.

All the above are extra nice and guaranteed to please your customers. 5 per cent discount for cash with orders. Free packing. Please state how to ship, express or motor freight. Shipping now through March.

EAST'S NURSERY

P. O. Box 5 Amity, Ark.

PECAN TREES, PAPER-SHELL

The nation's finest quality paper-shell Pecan trees. Vigorous, heavy caliper, smooth trees, grown under irrigation. All staked and trimmed for best appearance. Machine dug with the whole fibrous root system intact. Free, four-color Point of Purchase banners showing in life-like color, all varieties. Free planting guides for your customers. Order now while selections are complete. Varieties available: Stuart, Success, Mahan, Schley, John Garner, Western Schley, Burkett.

This stock guaranteed satisfactory or return for full refund.

PRICES

18 ins., 15c; 18 to 24 ins., 20c; 24 to 3 ft., 25c;
3 ft. up, 30c each. These are extra clean
and nice.

Grapes, 2-yr.-old. No. 1 vines, 15c each.

WOLFE NURSERY

Box 2000 Stephenville, Tex.

PEACH TREES

Buds are selected from best of 30,000 bearing trees, true to name. All listings are grown by us in our nursery. Cardinal, Coronet, Dixired, Halehaven, Hiland, Mayflower, Red Cap, Elberta, Redskin.

This stock guaranteed satisfactory or return for full refund.

PRICES

PECAN TREES, PAPER-SHELL
The nation's finest quality paper-shell Pe-

Terms: Packing without cost. Cash, or 25 per cent with order. F.O.B. Clanton.

DENNIS NURSERY

Temple Road Clanton, Ala.

CLARK DWARF APPLE

Scions	Per 100	Per 1000
6 to 12 ins.	\$ 8.00	\$ 7.00
12 to 18 ins.	16.00	14.00
18 to 24 ins.	24.00	21.00
24 to 30 ins.	32.00	28.00

CLARK DWARF APPLE GRAFTS

Whole-root	30.00	25.00
Piece-root	25.00	22.50
1-yr. Clark grafts	95.00	85.00

Grafts made up on hardy type roots. Callused. Ready February 1. Cash. Prepaid.

WHEELOCK WILSON NURSERY

Marshalltown, Ia.

PEAR SEEDLINGS

Pyrus calleryana (Pear), seedlings, grown in virgin soil, open field rows.	Per 1000
No. 2, 2 1/16 to 3 1/16-in. caliper	\$30.00
No. 1, 3 1/16 to 1/2-in. caliper	40.00
Choice grafting grade, 1/4 to 3/8-in. cal.	50.00

Priced F.O.B. Glenwood, Ark. No charge for packing if cash with order.

WRIGHT'S NURSERY, GLENWOOD, ARK.

THOMAS BLACK WALNUTS

Grafted, 15 to 24 ins., 75c; 2 to 3 ft., 11.00; 3 to 4 ft., \$1.25; 4 to 5 ft., \$1.40.	
---	--

We grow the nicest Thomas Black Walnut trees in the country. Minimum order, 25 trees. 25 per cent with order, balance on delivery; no credit shipments. All prices set, F.O.B. Rogers; no charge for packing.

CLINGER NURSERY

Highway 71 West Rogers, Ark.

DWARF FRUIT TREE UNDERSTOCK

APPLE STOCKS

Malling, E. M., II, VII, IX

PEAR STOCKS

QUINCE, E. M., A, B, C.

Wholesale only.

UNDERSTOCK NURSERY

Box 389 Medford, Ore.

GRAPEVINES

CONCORD, Niagara, 2 yrs. old, No. 1, extra heavy, 10c each; No. 2, 6c each.

McKEE'S NURSERY

P. O. Box 749 Covington, La.

DWARF EAST MALLING ROOT STOCK

for Apples, Pears, Peaches.

See our ad on page 64.

V. KRAUS NURSERIES

Carlisle, Ont., Canada

GARDENIAS

GARDENIA FORTUNEI

Extra heavy plants from 2 1/2-in. pots.

Per 100 \$ 12.50

Per 1000 100.00

GARDENIA RADICANS

2 1/2-in. pots, per 100 12.50

8 to 12 ins., bare-root, heavy, per 100. 12.50

COTTAGE HILL NURSERY

4600 Japonica Lane Mobile, Ala.

GERANIUMS

QUALITY GERANIUM CUTTINGS

Rooted, \$7.50 per 100, \$70.00 per 1000.

Special varieties slightly higher. Catalog of over 150 leading varieties free.

C. SECRIST, MUSCATINE, IA.

GROUND COVERS

PERIWINKLE

Hardy running Myrtle (Vinca minor), heavy 15 to 25-cane clumps of better than ever quality, dug and shipped fresh, \$50.00 per 1000.

Honeysuckle (Hall's halliana), 2 to 3 branched, \$45.00 per 1000.

English Ivy (Hedera helix), 1-yr., rooted cuttings, \$50.00 per 1000.

Pachysandras, 1-yr., rooted cuttings, \$50.00 per 1000.

H. C. WAUGH

Box 41, Upper River Rd. Gallipolis, O.

Hardy Myrtle (Vinca minor), plants with 20 leads or more and good roots, \$5.00 per 100, \$45.00 per 1000. Pachysandras, sand-rooted cuttings, \$40.00 per 1000. English Ivy, sand-rooted cuttings, \$40.00 per 1000. Cash.

Also potted plants of all kinds listed.

Samuel I. Minder, 305 Euclid Ave., Lancaster, Pa.

VINCA MINOR (MYRTLE)

20 to 30 leads, \$50.00 per 1000.

5000 up, \$45.00 per 1000.

Dug fresh March 1, 1959, on Euonymus and Ajugas.

VAUGHAN'S NURSERY & GHSE. CO.

15916 Cleveland Rd., R. 2 Granger, Ind.

Euonymus alatus compactus, rooted cuttings. Please see complete list on page 59.

Templeton, Phytotektor, Winchester, Tenn.

HARDWOOD CUTTINGS

HARDWOOD CUTTINGS

Unrooted cuttings of Taxus cuspidata, Ilex

bulata, etc., \$15.00 per 1000, F.O.B., cash in advance. Now to January 15.

LEHIGH VALLEY NURSERIES, INC.

1745 Linden St. Bethlehem, Pa.

HARDWOOD CUTTINGS

Cornus sibirica, Hydrangeas, P. G. and A. G.; Privet Amur River North, Honeysuckles, zabel, bella, tatarica rosea and morrowi; Philadelphus Physocarpus aureus, Spiraeas, froebel, thunbergi and vanhouttei; Snowberry, Forsythias, Lynwood Gold and spectabilis, \$3.50 per 1000.

Evergreen cuttings: Junipers, Andorra, Pfitzer, Greek; Taxus, cuspidata and capitata; Arborvitae, pyramidal and globe, \$12.00 per 1000.

ADAMS NURSERY, MONTICELLO, IA.

HARDWOOD CUTTINGS

Unrooted. Hand-trimmed from good stock.

Taxus cuspidata Taxus hatfieldi

Taxus hicksi Taxus browni

Taxus, cuspidata nana, pyramidalis hillii

Taxus intermedia

\$20.00 per 1000. F.O.B. Cash in advance.

Shipping now to January 15. No packing charge.

JOSEPH HOLLER FLORIST & NURSERY

Paris, Ill.

TAXUS, UNROOTED CUTTINGS

Selected, strong 8-in. cuttings, cut to size.

unrooted. Cupidata (spreading), \$20.00

per 1000; hatfieldi (upright), hicksi, intermedia (compact), intermedia (brev. type), andersoni, \$25.00 per 1000. Packing free.

JOHN VERMEULEN & SON, INC.

Neshanic Station, N. J.

Finer liners since 1921

HARDY PLANTS

HARDY PLANTS

Our new listing of well-developed perennial plants is now available. Plan now to set our field-grown plants into pots or bands, so that you may have them ready to go for the early spring rush.

WALTERS GARDENS

Route 2 Zeeland, Mich.

SPECIALIZING IN PERENNIALS

We grow over 500,000 strong field-grown plants.

Send for our current price list.

SPRINGBROOK GARDENS, INC.

Dept. A-10 Mentor, O.

PITZONKA'S FIELD-GROWN

PERENNIALS

Strong field-grown plants. Write for trade list.

PITZONKA'S PANSY FARM & NURSERY

Bristol, Pa.

America's best source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

SPECIALISTS IN HARDY PERENNIALS

Ask for wholesale offer.

PEARCE SEED CO., Moorstown, N. J.

WELLER'S BETTER PERENNIALS

WELLER NURSERIES CO., Holland, Mich.

Write for trade list.

HELLEBORUS

HELLEBORUS NIGER

(Christmas Rose)

3-yr. transplants, blooming size.

Suitable to pot up for sales on roadside stands and garden centers.

\$50.00 per 100, \$450.00 per 1000.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

HOLLY

HOLLY (ILEX)

FREE packing on all liners. Try these and you will agree there are none finer!

Per 100

Ilex cornuta burfordi, 2 1/2-in. pots

(8 to 12 ins.) \$15.00

8 to 12 ins., bare-root 12.50

12 to 18 ins., bare-root 15.00

Ilex cornuta femina, 3-in. pots (8 to 12) 20.00

Ilex crenata convexa, 8 to 10 ins.,

bare-root, TT 15.00

Ilex crenata Foster No. 1, 6 to 8 ins.,

heavy 15.00

Ilex crenata helleri, 2 1/2-in. pots,

branched 15.00

Ilex crenata heizi, 3-in. pots 20.00

8 to 12 ins., bare-root 20.00

Ilex crenata rotundifolia, 10 to 15 ins.,

bare-root, TT 15.00

Ilex crenata Stokes (pat. 887), 2 1/2-in.

pots, branched 20.00

Ilex vomitoria nana, 2 1/2-in. pots,

branched 17.50

Other sizes available in the above. Send

for listing on these and other fine liners.

SATISFACTION GUARANTEED!

COTTAGE HILL NURSERY

4600 Japonica Lane Mobile, Ala.

VARIEGATED HOLLY

Strong rooted cuttings, 4 or 6 leaves, 20c.

Ready for December and January shipping.

Cash with order, please.

KRUSCHKE GREENHOUSES

Clackamas, Ore.

HOLLY

Each, 100

Ilex crenata (Japanese Holly), B&B

2 to 2 1/2 ft. \$4.00

2 1/2 to 3 ft. 5.00

3 to 3 1/2 ft. 6.25

3 1/2 to 4 ft. 7.25

4 to 5 ft. 9.00

Ilex crenata (spreading type), B&B

15 to 18 ins., spreading \$3.00

18 to 24 ins., spreading 3.50

3 to 3 1/2 ft., spreading 5.00

2 1/2 to 3 ft., spreading 6.00

BULK'S NURSERIES

610 W. Montauk Highway Babylon, N. Y.

ILEX OPACA

SUPERIOR NAMED VARIETIES

WHOLESALE SUPPLIERS

OF LINING-OUT STOCK

Write for our price list.

HOLLY HAVEN, INC.

Box 75 New Lisbon, N. J.

MAY WE QUOTE YOU ON OUR

BETTER OREGON HOLIES?

Skimmia japonica, general nursery stock.

ALFRED TEUFEL, WHOLESALE GROWER

11414 N. W. Cornell Rd. Portland, Ore.

Holly liners, Ilex opaca, Ilex cornuta burfordi, Ilex, crenata convexa, hetsi and rotundifolia.

Please see complete list on page 59.

Templeton, Phytotektor, Winchester, Tenn.

HOLLY (ILEX)

See our display ad on page 35.

BLACKWELL NURSERIES

Semmes, Ala.

Foster's No. 2 Hybrid Holly (Ilex).

Please see complete list on page 59.

Templeton, Phytotektor, Winchester, Tenn.

HONEYSUCKLES

HONEYSUCKLES

Lonicera japonica halliana, extra-heavy

No. 1, 3 and 4-yr., 18 to 24-in. field plants,

3, 4 and 6 leads, \$40.00 per 1000; lighter grade,

\$30.00 per 1000; sample, 100, \$4.00. Experi-

enced labor for grading and packing quantity

orders. Immediate shipment. No order

too large. Phone OR 2-4612.

ROBINSON NURSERY CO., Greenville, Ga.

IRISES

Japanese Irises (kaempferi), assorted colors,

labeled; blooming size divisions, 50 for

\$6.00; 100 for \$11.00, prepaid.

V. W. Wilson, R. 3, Savannah, Ga.

IVIES

BALTIC IVY

Hardiest Ivy. Fine for wall or ground

cover. True stock. Well-rooted plants.

Per 100 Per 1000

Rooted cuttings \$ 7.00 \$ 65.00

2-in. pots 12.50 115.00

NEW THORNDALE IVY

2 1/2-in. pots \$25.00 per 100

Euonymus keniensis, 2-in. pots, 20.00 per 100

EUONYMUS VEGETUS

2-in. pots, \$12.00 per 100, \$110.00 per 1000.

2-yr., field-grown, \$35.00 per 100.

STRATFORD GARDENS

Russell Breece, M. R. 9 Delaware, O.

ENGLISH IVY

Per 100 Per 1000

2-in. bands \$12.00 \$105.00

Plants are free of charge and stack on top

of each other. No knocking out of pots for

transport. Order limit January 1 for pickup

in spring. No shipping.

25 per cent cash with order, 5 per cent

discount for total cash with order.

LEHIGH VALLEY NURSERIES, INC.

1745 Linden St. Bethlehem, Pa.

ENGLISH IVY (HEDERA HELIX)

Our super quality large-leaved strain.

Approved landscape architects' standards.

Order now! Ready for immediate shipment.

Strong 5 to 7-in. cuttings from field plants,

\$6.00 per 100, \$50.00 per 1000.

BABCOCK GARDENS, R. 3, Jamestown, N. Y.

LINING-OUT STOCK—Continued

LINING-OUT STOCK		
Bedded 1-yr. in the open.	100	1000
Ilex convexa	\$20.00	\$150.00
Ilex rotundifolia	20.00	180.00
Ilex hetzi	20.00	180.00
Juniperus pfitzeriana	20.00	180.00
Juniperus hetzi	20.00	180.00
Taxus andersonii	20.00	175.00
Taxus brevifolia	20.00	175.00
Taxus capitata, cune-grown	25.00	225.00
Taxus capitata Adams,		
cutting-grown	25.00	225.00
Taxus canadensis stricta	16.00	150.00
Taxus cuspidata	17.50	150.00
Taxus hatfieldi	17.50	150.00
Taxus hunnewelliana	17.50	150.00
Taxus hicksii	17.50	150.00
Taxus intermedia	17.50	150.00
Taxus henryi	20.00	175.00
Taxus densiformis	20.00	175.00
Taxus vermiculata	17.50	150.00
Taxus wardii	17.50	150.00
Taxus Moon's columnaris	20.00	175.00
Taxus brownii	17.50	150.00
2-yr. bedded in the open.		
Ilex convexa, 6 to 9 ins.	\$25.00	\$200.00
Ilex rotundifolia, 6 to 9 ins.	25.00	200.00
Ilex hetzi, 6 to 9 ins.	25.00	200.00
Taxus Adams col., 12 to 15 ins.	50.00	450.00
Taxus Moon's col., 8 to 12 ins.	30.00	250.00
Taxus cuspidata, 6 to 9 ins.	30.00	250.00
Taxus hatfieldi, 6 to 9 ins.	30.00	250.00
Taxus cuspidata comp.,		
6 to 9 ins.	30.00	250.00
Taxus hunnewelliana, 6 to 9 ins.	30.00	250.00
Taxus brownii, 6 to 9 ins.	30.00	250.00
Taxus intermedia, 6 to 9 ins.	30.00	250.00
TAXUS CAPITATA, SEEDLING-GROWN		
1-yr. seedlings	100	1000
2-yr. seedlings	100	1000
3-yr. seedlings	100	1000
4-yr. seedlings, trans-		
planted, 6 to 10 ins.	30.00	250.00
CORNUS FLORIDA (WHITE DOGWOOD)		
Seedlings	100	1000
1-yr., No. 1 grade	\$6.00	\$50.00
1-yr., No. 2 grade	5.00	40.00
1-yr., No. 3 grade	4.00	30.00
2-yr., No. 1 grade	12.50	100.00
2-yr., No. 2 grade	10.00	90.00
Special prices on large quantities.		
Full list on demand.		

VERKADE'S NURSERIES, WAYNE, N. J.

LINING-OUT LIST
PRICES SUBJECT TO CHANGE
WITHOUT NOTICE

ALL POTTED LINERS ON THIS LIST ARE PRICED FOR SHIPMENT IN PAPER POTS OR CUPS. THOSE WHO PREFER THE ORDINARY METHOD OF PACKING WHICH OMMITS THIS ADDED PROTECTION, MAY DEDUCT 1c PER PLANT. MINIMUM QUANTITIES: ORDERS FOR 25 TO 249 OF A VARIETY IN ONE SIZE TAKE THE 100 RATE. ORDERS FOR 250 OR MORE OF A VARIETY IN ONE SIZE TAKE THE 1000 RATE.

	Each, 100	1000
BIOTA AUREA NANA	24-in. pots	\$0.18
24-in. pots		.20
BIOTA AUREA PYRAM. COMP.	24-in. pots	.18
BIOTA BAKERI	24-in. pots	.16
24-in. pots		.17
BIOTA BONITA	24-in. pots	.18
24-in. pots		.20
BIOTA BONITA, upright	24-in. pots	.18
24-in. pots		.20
BIOTA EXCELSA	24-in. pots	.20
24-in. pots		.19
BIOTA SIBYL	24-in. pots	.18
24-in. pots		.17
CEDRUS DEDARA	24-in. pots	.16
24-in. pots		.18
BLUE LAWSON CYPRESS	24-in. pots	.16
24-in. pots		.17
JUNIPERUS CHIN. PFTZERIANA	24-in. pots	.18
24-in. pots		.19
JUN. CHIN. PFTZERIANA COMP.	24-in. pots	.18
24-in. pots		.19
JUN. CHIN. PFTZERIANA NANA	24-in. pots	.20
24-in. pots		.25
JUN. PFTZERIANA BLUE GRAY	24-in. pots	.17
24-in. pots		.19
JUN. COM. CRACOVIA (POLISH)	24-in. pots	.15
24-in. pots		.16
JUN. EXCELSA STRICTA	24-in. pots	.18
24-in. pots		.20
JUN. GLAUCA HETZI	24-in. pots	.18
24-in. pots		.20
JUN. HIBERNICA FASTIGIATA	24-in. pots	.17
24-in. pots		.18
JUN. ANDORRA	24-in. pots	.17
24-in. pots		.18
JUN. JAPONICA PROCUMBENS	24-in. pots	.20
24-in. pots		.20

(Continued in next column)

(Continued from previous column)

JUN. JAPONICA VIRGINALIS	24-in. pots	.16
JUN. SABINA TAMARISCIFOLIA	24-in. pots	.20
24-in. pots		.22 1/2
PINUS CARIBAEA (SLASH PINE)	24-in. pots	.10
THUJA OCC. GLOBOSA	24-in. pots	.17
24-in. pots		.19
THUJA OCC. PYRAMIDALIS	24-in. pots	.17
24-in. pots		.19
THUJA OCC. HETZ'S WINTER GREEN	24-in. pots	.17
24-in. pots		.19
TAXUS BREVIFOLIA	24-in. pots	.20
24-in. pots		.19
TAXUS CUSPIDATA	24-in. pots	.19
24-in. pots		.20
TAXUS MEDIA HICKSI	24-in. pots	.19
24-in. pots		.20
TAXUS INTERMEDIA	24-in. pots	.19
24-in. pots		.17
TAXUS MEDIA SIEBOLDI	24-in. pots	.19
24-in. pots		.20
ABELIA GRANDIFLORA	24-in. pots	.13
24-in. pots		.15
8x12 ins., TT. field-grown		.16
12x15 ins., TT. field-grown		.18
BERBERIS JULIANAE	24-in. pots	.20
24-in. pots		.22 1/2
BERBERIS SARCENTI	24-in. pots	.18
BUXUS JAPONICA	Rooted cuttings	.08
24-in. pots		.13
24-in. pots		.15
BUXUS SEMPERVIRENS	24-in. pots	.17
24-in. pots		.19
BUXUS SEMPERVIRENS CRONI	24-in. pots	.20
24-in. pots		.18
BUXUS SUFFRUTICOSA	24-in. pots	.18
24-in. pots		.20
CAMELLIA SASANQUA MAIDEN'S BLUSH	24-in. pots	.14
24-in. pots		.12
COTONEASTER PARNEYI	24-in. pots	.16
24-in. pots		.15
ELAEAGNUS FRUITLANDI	24-in. pots	.16
24-in. pots		.18
EUNYMYC MICROPHYLLUS PULCHELLUS	24-in. pots	.17
24-in. pots		.15
EUNYMYC RADICANS ERECTUS	24-in. pots	.16
24-in. pots		.15
EUNYMYC PATENS, large leaf	24-in. pots	.15
24-in. pots		.12
GARDENIA FORTUNEI	24-in. pots	.16
24-in. pots		.14
GARDENIA RADICANS	24-in. pots	.15
24-in. pots		.16
ILEX CORNUTA FEMINA	24-in. pots	.20
24-in. pots		.14
ILEX CORNUTA, seedlings	24-in. pots	.14
24-in. pots		.15
ILEX CORNUTA BURFORDI	24-in. pots	.15
24-in. pots		.14
ILEX CREN. CONVEXA BULLATA	24-in. pots	.17
24-in. pots		.18
ILEX CRENATA FOSTERI NO. 1	24-in. pots	.18
24-in. pots		.17
A new low growing compact spreader. Its small serrated foliage leaves are not convex and are more pointed than those of Ilex convexa bullata. Excellent material for plantings where low compact spreading specimens are required.		
24-in. pots		.18
ILEX CRENATA HETZI	24-in. pots	.16
24-in. pots		.18
ILEX CRENATA REPANDENS	24-in. pots	.15
24-in. pots		.14
ILEX CRENATA ROTUNDIFOLIA	Rooted cuttings	.06
24-in. pots		.15
24-in. pots		.16
ILEX OPACA FEMINA	24-in. pots	.22 1/2
24-in. pots		.25
ILEX OPACA, male	24-in. pots	.22 1/2
24-in. pots		.22 1/2
ILEX OPACA, seedlings	24-in. pots	.14
24-in. pots		.16
ILEX OPACA EAST PALATKA	24-in. pots	.16
24-in. pots		.17
ILEX VOMITORIA	24-in. pots	.15
24-in. pots		.15
ILEX VOMITORIA NANA (dwarf)	24-in. pots	.22
24-in. pots		.20
CHERRY LAUREL	6x8-in. seedlings	.08
24-in. pots		.14

(Continued in next column)

(Continued from previous column)

LIGUSTRUM IONANDRUM		
Introduced by U. S. Government from The Orient. Foliage leaves are small as those of Ilex crenata. Will form a perfect specimen by natural growth without shearing.		
2 1/2-in. pots	.....	.16
2 1/2-in. pots	.....	.18
LIGUSTRUM LUCIDUM COMP.		
2 1/2-in. pots	.....	.16
2 1/2-in. pots	.....	.18
LIGUSTRUM SIN. PENDULA (WEEPING AMUR RIVER SOUTH PRIVET)		
2 1/2-in. pots	.....	.12
2 1/2-in. pots	.....	.10
MAGNOLIA GRANDIFLORA		
2 1/2-in. pots	.....	.16
2 1/2-in. pots	.....	.18
MAHONIA BEALEI		
2 1/2-in. pots	.....	.22 1/2
2 1/2-in. pots	.....	.25
NANDINA DOMESTICA		
2 1/2-in. pots	.....	.11
2 1/2-in. pots	.....	.13
3-in. pots	.....	.20
PHOTINIA SERRULATA		
2 1/2-in. seedlings	.....	.02 1/2
2 1/2-in. pots	.....	.18
2 1/2-in. pots	.....	.20
PODOCARPUS SINENSIS		
2 1/2-in. pots	.....	.15
2 1/2-in. pots	.....	.16
PYRACANTHA DELLI		
2 1/2-in. pots	.....	.19
2 1/2-in. pots	.....	.21
PYRACANTHA COCCINEA LALANDI		
2 1/2-in. pots	.....	.17
2 1/2-in. pots	.....	.18
PYRACANTHA YUNNANENSIS		
2 1/2-in. pots	.....	.17
TEUCRIUM CHAMAEDRYS		
2 1/2-in. pots	.....	.12
VIBURNUM TINUS		
2 1/2-in. pots	.....	.13
2 1/2-in. pots	.....	.16
ACER PALMATUM ATROPUR. (seedlings)		
2x4-in. seedlings	.....	.07
2 1/2-in. pots	.....	.21
BERBERIS THUN. ATROPUR.		
2 1/2-in. pots	.....	.11
2 1/2-in. pots	.....	.13
CORNUS FLORIDA		
6x8-in. seedlings	.....	.05
2 1/2-in. pots	.....	.12
2 1/2-in. pots	.....	.14
(Potted grades are grafting size)		
SPIRAEA ANTHONY WATERER		
2 1/2-in. pots	.....	.10
2 1/2-in. pots	.....	.08
SPECIAL NOTICE: ITEMS MARKED BY * ARE AVAILABLE FOR DELIVERY EARLY SPRING OF 1953. ALL ITEMS NOT SO MARKED ARE READY FOR IMMEDIATE SHIPMENT OR LATER TO SUIT CUSTOMER'S REQUIREMENTS.		
T. G. OWEN & SON, INC.		
Columbus, Miss.		
LINING-OUT STOCK		
We are now booking orders for fall and winter delivery of the following heavily rooted liners.		
Buxus japonica	Ilex rotundifolia	
Dwarf Eucynymus	Viburnum	
Gardenia fortunei	odoratissimum	
Gardenia radicans	Ilex burfordi	
Gardenia veitchii	Ligustrum lucidum	
Gardenia stricta nana	Ilex East Palatka	
Prices of above lining-out stock:		
3 to 5 ins., rooted cuttings	Per 100	Per 1000
4 to 6 ins., transplants	5.00	\$ 40.00
6 to 8 ins., transplants	6.00	50.00
6 to 8 ins., transplants	10.00	80.00
8 to 12 ins., transplants	12.50	100.00
Baker Arborvitae	Photinia glabra	
Berckmans' Arborvitae	Pittosporum	
Globe Arborvitae	Rhus harlandi	
Chamaecyparis allumi	Podocarpus	
Osmanthus fragrans	Ilex bullata	
Pfitzer Juniper		
Prices of above lining-out stock:		
3 to 5 ins., rooted cuttings	Per 100	Per 1000
4 to 6 ins., transplants	8.00	\$ 50.00
6 to 8 ins., transplants	8.00	75.00
6 to 8 ins., transplants	12.50	100.00
8 to 12 ins., transplants	15.00	125.00
Book your orders early, for complete selection.		
FLOWERWOOD NURSERY, INC.		
P. O. Box 185		Cairo, Ga.
Phone 2-4021 or write.		
LINING-OUT STOCK		
Pfitzer Juniper, 6 to 8 ins., 1-yr.		
8 to 12 ins., 1-yr. field		\$0.04
10 to 15 ins., 2-yr. field		.12
Ilex rotundifolia, rooted cuttings		.01
Ilex burfordi, rooted cuttings		.03
Nandina seeds, per lb.		1.00
Ligustrum lucidum, rooted cuttings		.05
Eucynymus patens, rooted cuttings		.02
Abelia grandiflora, 8 to 12 ins.		.04
1-yr. field		.04
Old English Boxwood, 2 to 3 ins., 1-yr.		.03
English Ivy (big-leaved), rooted cuttings		.03
Your patronage always appreciated.		
E. F. DUBOSE NURSERY		
Huntville, Ala.		

LINING-OUT STOCK

Per 100 Per 1000
(EACH) (EACH)

*Althaea colestia (blue), 1-yr. grafts	\$.25	...
*Althaea Lady Stanley (semi-double white, pink center, 1-yr. grafts)	.25	...
*Althaea Woodbridge (large single pink), 1-yr. grafts	.25	...
Cotoneaster divaricata, 1-yr. seedlings	.12 1/2	\$0.10
*Eranthis campanulatus (cuttings), strong 2-yr. T, 8 to 12 ins.	.40	.35
*Euonymus vegetus, strong 2-yr. T, heavy	.30	.25
*Euonymus vegetus, strong 3-yr. T, heavy	.40	.35
*Fagus sylvatica (River's Purple Beech), 2-yr. grafts, 12 to 18 ins.	1.75	1.50
*Forsythia Beatrix Farrand (NEW), 1-yr. T, softwood cuttings	.30	.25
*Forsythia Lyndon Gold, 1-yr. T, softwood cuttings	.18	.15
*Forsythia Spring Glory, 1-yr. T, softwood cuttings	.18	.15
*Hydrangea hortensis (hardy), deep pink, compact grower, 2-yr. T	.50	.45
*Hydrangea petiolaris (climbing Hydrangea), rooted cuttings, from 2 1/2-in. pots	.40	.35
Ilex compacta, 2-yr. T	.40	.35
Ilex glabra compacta, 2-yr. T	.40	.35
Ilex latifolia, 2-yr. T	.40	.35
Ilex roundifolia, 2-yr. T	.40	.35
Juniper. Andorra, 2-yr. T	.40	.35
Juniperus hetzel, 2-yr. T	.40	.35
Juniperus pfitzeriana glauca, 2-yr. T, from cuttings	.40	.35
*Leucothoe catesbaei, strong 1-yr. T	.40	.35
*Pieris japonica (Andromeda japonica), 3-yr. T, 9 to 12 ins.	.50	.45
Prunus maritima (Beach Plum), 1-yr. adlgs. 12 to 18 ins.	.15	.10
Prunus tomentosa (Nanking Cherry), strong 1-yr. seedlings	.10	.07 1/2
Taxus brevifolia (nana), 2-yr. T	.45	.40
Taxus cuspidata, spread-ing, 2-yr. T	.45	.40
Taxus intermediata, 2-yr. T	.45	.40
Thuja woodwardi, 2-yr. T	.35	..
Viburnum tomentosum (true), 1-yr. T, softwood cuttings, 8 to 12 ins.	.25	.20
Viburnum wrightii, 3-yr. grafts, 2 to 3 ft.	1.25	1.00
*Vitis macrophylla (true), 2-yr. bedded, 18 to 24 ins.	.40	.35
*Weigela vancei, 1-yr. T, softwood cuttings	.25	.20

LINING-OUT STOCK

Per 100 Per 1000
(EACH) (EACH)

Abies concolor, 2-yr. seedlings, 4 to 8 ins.	7.00	65.00
Acer ginnala, 1-yr. seedlings, 6 to 9 ins.	7.00	60.00
Acer ginnala, 1-yr. seedlings, 9 to 12 ins.	8.50	75.00
Acer ginnala, 2-yr. T, FR, 15 to 18 ins.	20.00	150.00
Acer platanoides, 1-yr. seedlings, 4 to 6 ins.	5.50	45.00
Acer platanoides, 1-yr. seedlings, 6 to 9 ins.	6.50	55.00
Acer platanoides, 1-yr. seedlings, 9 to 12 ins.	7.50	65.00
Acer platanoides, 2-yr. T, FR, 15 to 18 ins.	16.50	130.00
Acer platanoides, 2-yr. T, FR, 18 to 24 ins.	18.50	150.00
Acer pseudoplatanus, 3-yr. T, FR, 4 to 5 ft.	60.00	500.00
Acer saccharum, 1-yr. seedlings, 6 to 9 ins.	6.50	55.00
Azalea hinodogiri, 3-yr. T, beds, 6 to 9 ins.	65.00	600.00
Berberis thunbergii, 2-yr. T, FR, 9 to 12 ins.	8.50	75.00
Berberis thunbergii, 2-yr. T, FR, 9 to 12 ins.	9.50	85.00
Cornus florida, 1-yr. seedling, 6 to 9 ins.	5.00	45.00
Cornus florida rubra, 1-yr. graft, beds	90.00	850.00
Cornus florida rubra, 3-yr. graft, TT, FR, 18 to 24 ins.	200.00	1750.00
Cotoneaster horizontalis, 3-yr. T, FR, 8 to 10 ins.	55.00	500.00
Cydonia japonica, 1-yr. seedlings, 9 to 12 ins.	5.50	45.00
Euonymus carrierei, 2-yr. T, FR, 6 to 9 ins.	35.00	300.00
Euonymus carrierei, 2-yr. T, FR, 6 to 9 ins.	35.00	300.00
Fagus sylvatica, 2-yr. T, FR, grafting, 2 to 9 ins.	12.00	100.00
Fagus sylvatica, 2-yr. T, FR, 9 to 12 ins.	15.00	140.00

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(Continued from previous column)

Ginkgo biloba, 1-yr. seedlings, 4 to 6 ins.	8.00	75.00
Ilex aquifolium (Eng. Holly), 2-yr. T, beds, staked, 18 to 24 ins.	75.00	650.00
Ilex compacta, 2-yr. beds, 3 to 5 ins.	40.00	350.00
Ilex convexa, 2-yr. beds, 6 to 9 ins.	40.00	350.00
Ilex Longellow, 2-yr. beds, 6 to 9 ins.	40.00	350.00
Ilex Tennyson, 2-yr. beds, 6 to 9 ins.	40.00	350.00
Juniperus hetzel, 2-yr. T, FR, 9 to 12 ins.	45.00	400.00
Liquidambar styraciflua, 1-yr. seedlings, 4 to 6 ins.	7.00	65.00
Liquidambar styraciflua, 1-yr. seedlings, 6 to 9 ins.	8.50	80.00
Liquidambar styraciflua, 3-yr. T, FR, 2 to 3 ft.	75.00	700.00
Pieris japonica, 1-yr. T, beds	15.00	100.00
Pieris japonica, 2-yr. T, beds	35.00	300.00
Pieris japonica, 3-yr. T, beds	45.00	400.00
Pieris japonica, pink; 3-yr. T, beds	55.00	500.00
Prunus ser. fug. veit. (Jap. Cherry), 3-yr. T, FR, 5 to 6 ft. whips	100.00	900.00
Quercus palustris, 1-yr. seedlings, 6 to 9 ins.	8.00	75.00
Quercus palustris, 3-yr. TT, FR, 18 to 24 ins.	50.00	450.00
Quercus palustris, 3-yr. TT, FR, 2 to 3 ft., staked	65.00	600.00
Sophora japonica, 1-yr. seedlings, 6 to 9 ins.	8.00	75.00
Sophora japonica, 1-yr. seedlings, 9 to 12 ins.	10.00	95.00
Sorbus aucuparia, 2-yr. T, FR, 18 to 24 ins.	25.00	200.00
Sorbus aucuparia, 2-yr. T, FR, 2 to 3 ft.	30.00	250.00
Sorbus aucuparia, 3-yr. T, FR, 5 to 6 ft. whips	100.00	900.00
Taxus cuspidata, upright seedlings, 2-yr. T, 4 to 6 ins.	12.00	90.00
Taxus cuspidata, upright seedlings, 2-yr. T, beds	20.00	180.00
Taxus densiformis, 2-yr. T, beds	30.00	250.00
Taxus densiformis, 3-yr. T, beds	45.00	400.00
Taxus hatfieldi, 2-yr. T, beds	30.00	250.00
Thuja nigra, 2-yr. T, FR, 9 to 12 ins.	45.00	400.00
Thuja woodwardi, 2-yr. T, FR, 6 to 9 ins.	45.00	400.00
Tilia cordata, 1-yr. seedlings, beds, 4 to 6 ins.	8.50	80.00
Tilia cordata, 1-yr. seedlings, beds, 6 to 9 ins.	10.00	95.00
Tilia cordata, 1-yr. seedlings, beds, 9 to 12 ins.	12.00	110.00
Tilia cordata, 1-yr. seedlings, beds, 15 to 18 ins.	15.00	135.00
Tilia cordata, 1-yr. seedlings, beds, 18 to 24 ins.	18.00	160.00
Tilia cordata, 3-yr. TT, FR, 4 to 5 ft., staked	75.00	650.00
Tsuga canadensis, 3-yr. T, beds, 6 to 9 ins.	30.00	250.00
Viburnum dilatatum, 1-yr. seedlings, 9 to 12 ins.	5.00	45.00
Wistaria sinensis, 1-yr. seedlings, grafting size	5.50	45.00
Wistaria sinensis, blue; 2-yr. grafts, T, FR	70.00	650.00

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Pinus thunbergii, 4 to 8 ins.	6.00	60.00
Pseudotsuga taxifolia glauca, 4 to 8 ins.	6.00	60.00
Syringa vulgaris, 12 to 18 ins.	9.00	80.00
Tsuga caroliniana, 3 to 6 ins.	10.00	75.00
*Pinus flexilis, 3 to 5 ins.	6.50	...
Pinus nigra, 8 to 12 ins.	6.00	60.00
Taxus capitata, 4 to 8 ins.	15.00	125.00
TRANSPLANTS		
Helleborus niger, 3-yr.	45.00	...
Picea pungens glauca, 3-yr.	17.50	160.00
Sorbus aucuparia, 2-yr., 18 to 24 ins. and up	25.00	200.00
Taxus capitata, 4-yr., 6 to 10 ins.	35.00	300.00
Thuja occidentalis, 3-yr.	10.00	85.00
Thuja orientalis, 2-yr.	8.50	75.00
Tsuga canadensis, 4 to 8 ins.	15.00	125.00
Tsuga canadensis, 6 to 10 ins.	20.00	175.00
CUTTINGS, 2 1/2-IN. POTS		
HIGH SURVIVAL LINERS		
Azalea, palestrina, Sherwood Red	43.00	320.00
Berberis, julianae, thunbergii atropurpurea Crimson Pygmy	3.50	25.00
Berberis verruculosa	3.50	25.00
Buxus handsworthii, koreana, sempervirens	3.00	20.00
Chamaecyparis, cyano viridis, plumosa aurea, plumosa sulphurea	3.00	20.00
Cotoneaster, adpressa praecox, conspicua decidua	3.00	20.00
Cotoneaster, horizontalis, horizontalis perpusilla	3.00	20.00
Euonymus, alatus compactus, carrierei, japonicus, patens, vegetus	3.00	20.00
Ilex aquifolium Ciliata Major	5.00	40.00
Ilex cornuta burfordii	4.00	30.00
Ilex crenata, convexa, helleri, microphylla, rotundifolia	3.00	20.00
Ilex glabra	3.00	20.00
Ilex opaca (4 to 6 ins. in the following named varieties)	5.00	40.00
Arden	Hedge Holly	
Cheerful	Joyce	
Christmas Tide	Lake City	
Clark	Mae	
Della Bradley	Manig	
Fargate	Merry Christmas	
Femina No. 16	Osa	
Ilex opaca Arden (fruited)	6.00	50.00
Ilex opaca maculata	6.00	40.00
Juniperus depressa plumosa	3.00	20.00
Juniperus, horizontalis Bar Harbor, horizontalis wilsoni glauca	3.00	20.00
Juniperus, pfitzeriana compacta, pfitzeriana nana	3.00	25.00
Juniperus glauca hetzel	3.00	20.00
Mahonia bealei	3.00	25.00
Oxydendron arboreum	3.00	25.00
Pieris, floribunda, japonica	3.00	20.00
Prunus laurocerasus schipkaensis	3.50	30.00
Pyracantha, coccinea islandi, coccinea, red; wyatti	3.00	20.00
Rhododendron wilsoni	5.00	40.00
Sarcococca hookeriana humilis	3.00	20.00
Taxus baccata repandens	3.50	25.00
Taxus cuspidata, aurea, capitata, compacta, densiformis	3.50	25.00
Taxus, cuspidata F. & F. compacta, cuspidata nana	3.50	25.00
Taxus media, browni, cliftoni, Halloran, hatfieldi, henryi, hicksi	3.50	25.00
Taxus media, Moon's columnaris, veruculata, wardi	3.50	25.00
Thuja occidentalis, globosa, Howe type, globosa novum	3.00	20.00
Viburnum, bitchuense, fragrans	3.50	25.00
2-YR. REDDED TRANSPLANTS		
Azalea, calendulacea, mucronulata, schippenbachii	3.00	25.00
Ligustrum Dwarf Wintergreen	2.50	20.00
Rhododendron hybrid (red), Rhododendron amirnowi x hardy hybrid	3.50	30.00
Taxus, cuspidata densiformis, cuspidata F. & F. compacta	4.75	40.00
Taxus media, browni, Halloran, hicksi, Moon's columnaris	4.75	40.00
1-YR. GRAFTS, 2 1/2-IN. POTS		
Acer palmatum atropurpureum	8.50	75.00
Bloodgood	8.50	75.00
Acer saccharum monumentale	10.00	90.00
Cornus, florida pendula, florida rubra Prosser	8.50	75.00
Cornus, florida rubra, kousa chinensis	7.50	65.00
Fagus sylvatica, asplenifolia, fastigiata, heterophylla	8.50	...
Fagus sylvatica, riveria	7.50	65.00
Fagus sylvatica Tricolor	9.00	65.00
Hamamelis mollis	7.50	65.00
Ilex, opaca Cheerful, opaca Hookstraw	8.50	75.00
Juniperus scopulorum Blue	7.50	65.00
Heaven	9.00	...
Magnolia soulangeana lennei	9.00	...
Magnolia rustica rubra	8.50	75.00
Magnolias, sieboldi parviflora, soulangeana, nigra	8.50	75.00
Parrotia persica	7.50	65.00
Tsuga canadensis sargentii pendula	7.50	65.00

P. O. Box 128 Wayne, N. J.
Classified Ads Offer Maximum Results at Minimum Cost.

LINING-OUT STOCK—Continued

EVERGREENS		
Andorra Juniper, 6 to 8 ins., bare-root	\$.05	
Blue Hetz Juniper, 6 to 10 ins., bare-root	.05	
Burk Juniper (upright), 6 to 10 ins., bare-root	.14	
Pfitzer Juniper, 6 to 10 ins., bare-root	.07	
Pfitzer Juniper, plant bands	.16	
Hill's dark green American Arborvitae, (pyramidal), 6 to 8 ins., bare-root	.12	
Rosefield's Moonglow Juniper (upright acupolurum), A. denser Blue Heaven, 6 to 8 ins., bare-root	.30	
Rosefield's Montana green Juniper (upright, semi-dwarf acupolurum), Requires no trimming	.30	
*Savin Juniper, 6 to 8 ins., bare-root	.06	
*Von Ehron Juniper, 6 to 8 ins., bare-root	.06	
Spreading Jac. Yew (<i>Taxus cuspidata</i>), 6 to 8-in. plant bands	.20	
DECIDUOUS, BARE-ROOT		
Blue-leaved Arctic Willow, 10 to 12 ins.	.06	
Foraythia Arnold's Giant, 5 to 6 ins.	.07	
Foraythia Arnold's Dwarf, 4 to 6 ins.	.12	
Foraythia Beatrix Farrand, 6 to 10 ins.	.08	
Foraythia Lynwood Gold, 6 to 10 ins.	.05	
Foraythia nana compacta, 5 to 8 ins.	.05	
Foraythia Spring Glory, 8 to 12 ins.	.04	
Hydrangea A.G., 8 to 10 ins.	.10	
Hypericum Hidcote, 6 to 10 ins.	.06	
Hypericum kalmianum, 6 to 10 ins.	.06	
Honeysuckle (bush), 10 to 12 ins.	.05	
Honeysuckle (vine), heckrotti, giant-flowering, everblooming (Gold Flame), 10 to 12 ins.	.05	
Privet, Chinese (Wayside Gardens strain), 8 to 12 ins.	.04	
Privet, Lodense, 6 to 10 ins.	.05	
Privet, golden vicari. All yellow, 6 to 10 ins.	.07	
Spiraea macrothyrsa, everblooming pink plumes, 10 to 12 ins.	.05	
Viburnum opulus sterile (Snowball), 6 to 8 ins.	.10	
Viburnum tomentosum (Doublefile Snowball), 6 to 8 ins.	.10	
Weigela vaniceki, 5 to 6 ins.	.06	
BROADLEAFS		
Euonymus carrierei, 8 to 10 ins.	.04	
Euonymus patens Flagpole (small-leaved), 8 to 10 ins.	.04	
Euonymus patens Owen (small-leaved), 8 to 10 ins.	.04	
Euonymus patens Newport (medium-leaved), 8 to 10 ins.	.04	
Euonymus patens Rosehill (medium-leaved), 8 to 10 ins.	.04	
Euonymus patens, large-leaved, 8 to 10 ins.	.04	
Euonymus coloratus, 6 to 10 ins.	.04	
Euonymus radicans, upright (Sarcocoe), 5 to 6 ins.	.07	
Purple-leaved (Texas) Honeysuckle vine, 6 to 10 ins.	.05	
Variegated-leaved Honeysuckle vine (Gold Net), 10 to 12 ins., 2-yr.	.06	
*Pyracantha blossi, red berry (shiny leaves), 5 to 6 ins.	.15	
Pyracantha Kasaan, hardy in Iowa, 5 to 6 ins.	.07	
Pyracantha islandi, 6 to 8 ins.	.05	
Pyracantha pauciflora, shiny small leaves; dwarf, round, dense bush. Hardest of all, 5 to 6 ins.	.06	
PERENNIALS		
*Teucrium chamaedrys, 4 to 6 ins.	.04	
Shipment now or book your order for spring. Less than 30¢ total order, 2¢ more per plant. Less than 50¢ of any item, 4¢ more per plant. Starred (*) items scarce only.		
McNINCH GREENHOUSES St. Joseph, Mo.		

LINING-OUT STOCK		
Greek Juniper	Per 100	Per 1000
2-yr., 8 to 12 ins.	\$15.00	\$125.00
Hetz Juniper		
6 to 8 ins., 1-yr.	10.00	90.00
8 to 12 ins., 1-yr.	12.50	100.00
12 to 15 ins., 2-yr.	22.50	200.00
Irish Juniper		
8 to 12 ins., 2-yr.	15.00	125.00
12 to 15 ins., 2-yr.	17.50	150.00
Pfitzer compacta		
6 to 12 ins., 1-yr.	15.00	125.00
6 to 12 ins., 2-yr.	20.00	175.00
Pfitzer compacta (Nick's)		
6 to 8 ins., 1-yr.	15.00	125.00
8 to 12 ins., 1-yr.	20.00	175.00
8 to 12 ins., 2-yr.	22.50	200.00
Write for our complete price list.		
BYERS NURSERY CO. Chase, Ala.		

LINING-OUT STOCK		
Taxus, hatfieldi, 2-yr., T.	Per 100	Per 1000
10 to 12 ins.	\$30.00	\$250.00
cuspidata, 2-yr., T.		
12 to 15 ins.	30.00	250.00
hickoi, 2-yr., T, 10 to 12 ins.	30.00	250.00
thayerae, 2-yr., 10 to 12 ins.	30.00	250.00
Andromeda (Fleris Japonica)		
1-yr., T, 4 to 6 ins.	10.00	85.00
2-yr., T, 10 to 12 ins.	25.00	200.00
3-yr., T, 14 to 16 ins.	35.00	300.00
seedlings, 1 1/2 to 2 ins., heavy	5.00	45.00
AZALEA HINODEGIRI LEDIFOLIA \$15.00 per 100; \$12.50 for quantities of 100 or more.		
SOWAMS NURSERY 82 Sowams Road Barrington, R. I.		

2 1/2-IN. LINING-OUT STOCK		
Juniperus armstrongii	Per 100	Per 1000
Juniperus heterophylla	20	200
Juniperus prostrata	20	200
Juniperus pfitzeriana	18	180
Juniperus pfitzeriana, blue	20	200
Juniperus sabina tamaricifolia	22	220
Nerium (Oleanders), 6 varieties, red, salmon, pink, cherry, double pink, white	18	180
Ilex cornuta, cutting-grown from berried stock plants	20	200
Ilex burfordi	20	200
Packing free and EXPRESS PREPAID to any point in continental U. S. Cash with order.		
Six samples shipped for \$2.00, your choice or our selection. Express prepaid.		
MULHOLLAND NURSERY 2009 Lincoln Ave. Montebello, Calif.		

LINING-OUT STOCK		
Cherry Laurel, 6 to 12 ins.	Per 100	Per 1000
Cherry Laurel, 12 to 18 ins.	30.00	300.00
Magnolia grand., 4 to 8 ins.	5.00	50.00
Magnolia grand., 6 to 12 ins.	8.00	70.00
Gardenia fortunei, 12 to 18 ins.	5.00	40.00
Gardenia fortunei, 18 to 24 ins.	10.00	90.00
Gardenia mystery, 12 to 18 ins.	5.00	40.00
Gardenia radicans, 6 to 8 ins.	5.00	40.00
stricta nana, 6 to 12 ins.	5.00	40.00
Live Oaks, 6 to 18 ins.	4.00	35.00
Wax Ligustrum, 6 to 12 ins.	4.00	30.00
Yaupon Holly, 4 to 8 ins.	4.00	35.00
L. H. BUTTER NURSERY Forest Hill, La.		

SURPLUS FINE LINERS	
Azaleas, Dogwoods, Holly, Junipers, Magnolias, Maples, Pieris, Pyracantha, Rhododendrons, Taxus, Viburnums, etc., 24,050 transplants, 20,000 heavily rooted cuttings, 100 flats of seedlings. Already bargain prices reduced for quantity or lot purchases. Special list will be sent on request, but we suggest you hurry over to buy while they last.	
JOHN VERMEULEN & SON, INC. Neshanic Station, N. J. Finer liners since 1921	

LINING-OUT STOCK		
We offer the following in heavy 2-yr. liners, ideal for field planting.		
AZALEA KAEMPERFII, 2-yr., TT	Each, 100	\$0.20
ARBORVITAE, WOODWARDI GLOBE, 2-yr., T	20	
ELEGANTISSIMA, 2-yr., T	20	
TAXUS HICKSII, 2-yr., T	25	
TAXUS, ADAMS, 2-yr., T	25	
CHAMPION NURSERIES Perry, O.		

FINER LINERS		
Time is your biggest expense. To grow only select quality plants of the better varieties is good, sound business and profitable. Don't fail to check our descriptive catalog. Free copy on request. We offer dependable quality and service. Ask about special discounts and surplus offerings.		
JOHN VERMEULEN & SON, INC. Neshanic Station, N. J. Finer liners since 1921		

DAVIDIA INVOLUCRATA	
12 to 18-in. seedlings, \$2.00 each.	
ACTINIDIA CHINENSIS	
12 to 24-in. seedlings, 50¢ each.	
THORNHILL NURSERY	
6250 Thornhill Dr.	
Oakland (11), Calif.	

EUROPEAN WHITE BIRCH SEEDLINGS		
2 to 3 ft.	100	1000
18 to 24 ins.	\$8.00	\$70.00
12 to 18 ins.	7.00	60.00
9 to 12 ins.	5.50	50.00
6 to 9 ins.	4.50	40.00
6 to 9 ins.	3.50	30.00
Send for list of other lining-out stock.		
VILLA NURSERIES Montavilla Sta., Box 5137 Portland, Ore.		

2-YR. LINERS FROM BEDS		
Blota aurea nana	Each, 100	1000
Ilex rotundifolia	\$0.22	\$0.20
Viburnum burkwoodi	.22	.20
Osmanthus americana	.22	.20
Nandina domestica	.22	.20
Spiraea Anthony Waterer	.15	.10
NICK'S NURSERY, ANCHORAGE, KY.		

BARBERRY		
Green, 2-yr. seedlings, lining-out	Each, 100	1000
Green, 2-yr. seedlings, branched	\$0.03	\$0.02 1/2
6 to 9 ins.	.03 1/2	.03
Red, 2-yr. seedlings, lining-out	.04 1/2	.04
DANEGGER'S HI-WAY NURSERY, INC. Box 336 Miford, Del.		

TREE PEONY SEEDLINGS		
Grown from our selected Japanese varieties.		
2-yr.	\$2.50 per 10, \$20.00 per 100	
3-yr.	4.00 per 10, 35.00 per 100	
Packing free for cash with order.		
TOICHI DOMOTO 26521 Whitman St. Hayward, Calif.		

FLOWERING QUINCE LINERS		
Please see complete list on page 59.		
Templeton, Phytotektor, Winchester, Tenn.		

VIBURNUM LANTANA		
Lining-out shrubs	100	1000
5000 1-yr., 4 to 6 ins.	\$ 5.00	\$45.00
700 2-yr., tr. pl.	12.00	
JOHN BOS NURSERY, CLYDE, O.		
LINERS OF THE BETTER KINDS		
Write for price list.		
GULF STREAM NURSERY, INC. Wachapreague, Va.		

LINING-OUT STOCK		
See our display ad on page 35.		
BLACKWELL NURSERIES Semmes, Ala.		

MAGNOLIAS		
ORIENTAL MAGNOLIAS		
Soulangiana and soulangiana nigra.		
Red-grown liners	Per 100	Per 1000
8 to 12 ins.	\$30.00	\$250.00
12 to 18 ins.	35.00	300.00
18 to 24 ins.	40.00	350.00
Field-grown with buds		
2 to 3 ft., balled and burlapped	Each	\$1.25
4 to 4 ft., balled and burlapped	1.75	
2 to 3 ft., bare-root	1.00	
3 to 4 ft., bare-root	1.40	
We advise shipment before February 1.		
WELCH BROS. NURSERY, INC. Wilmer, Ala.		

Magnolia grandiflora, 4 to 8 ins., shipped in pots, 2 1/2-in. or removed, \$15.00 per 100.	
1-yr. seedlings for spring 1959, about 4 ins. high, \$50.00 per 1000. Cash and no charge for packing.	
Harwell Nursery, Van Buren, Ark.	

ORIENTAL MAGNOLIAS		
See our display ad on page 35.		
BLACKWELL NURSERIES Semmes, Ala.		

MAPLES		
JAPANESE RED MAPLE SEEDLINGS (ACER PALMATUM ATROPURPUREUM)		
Carefully selected, finest red Maple. Well-hardened from open field beds. Liners and heavy potting grades in large quantities.		
	Each	Each
	250 or	per 100 more
1-yr. (all red), 8 to 10 ins.	\$0.22	\$0.20

2-yr., X, light branched	.32	.30
8 to 10 ins.	.38	.35
10 to 12 ins.	.42	.40
12 to 15 ins.	.45	.42
2-yr., X, heavy grade, branched transplants		
6 to 8 ins.	\$0.43	\$0.40
8 to 10 ins.	.48	.45
10 to 12 ins.	.52	.50
12 to 15 ins.	.55	.50
3-yr., XX, branched transplants, ready for 6-in. pots (salable)		
12 to 15 ins.	\$0.80	\$0.75
15 to 18 ins.	.95	.90
4 and 5-yr., well-branched, heavy grade	\$1.00	\$0.95
12 to 15 ins.	1.25	1.15
15 to 18 ins.	1.60	1.50
18 to 21 ins.	2.00	1.90
21 to 24 ins.	2.75	2.60
Shipped dormant. Packed in sphagnum. Late fall or early spring.		
20 per cent deposit will reserve your order.		
HUBBS NURSERIES Route 130 Specializing in Japanese Maple seedlings. Riverton, N. J.		

RED JAPANESE MAPLE		
Your inspection of the plants in foliage is cordially invited.		
	Per 100	Per 1000
	(EACH)	(EACH)
*Acer palmatum atropurpureum, selected types, strong 2-yr. grafts, 12 to 18 ins.	\$1.50	\$1.25
*Acer palmatum atropurpureum, strong 3-yr. grafts.	2.00	
*Acer palmatum atropurpureum BLOODGOOD, 2-yr. grafts, 12 to 18 ins.	1.75	
*Acer palmatum atropurpureum OSSI BENI, 2-yr. grafts, 12 to 18 ins.	1.50	
*Acer palmatum atropurpureum OSSI BENI, 3-yr. grafts	2.00	
*ITEMS SUITABLE FOR MAIL ORDER		
TRADE AND CANNING.		
C. HOOGEBOORN, NURSERYMAN 413 Turner Rd. Newport, R. I.		

NORWAY MAPLE		
Straight trunks. Fine heads. Very fibrous roots.		
6 to 8 ft.	10-49	50-550
8 to 10 ft., 1 to 1 1/2 in.	4.05	3.25
9 to 11 ft., 1 1/4 to 1 1/2 in.	5.30	4.25
10 to 12 ft., 1 1/2 to 1 3/4 in.	7.00	5.50
11 to 13 ft., 1 3/4 to 2 in.	5.00	6.50
PRINCETON NURSERIES Princeton, N. J.		

COLLECTED SUGAR MAPLE		
Straight, branched and heavily rooted.		
	Each, 100	1000
3 to 4 ft.	\$0.12	\$0.10
4 to 6 ft.	.25	.20
6 to 8 ft.	.35	.30
8 to 10 ft.	.80	.75
10 to 12 ft.	1.20	1.00
ADAMS NURSERY, MONTICELLO, IA.		

DECE
NORW
ba
1 1/2
2 to
2 1/2
SUGAR
1 1/2
2 to
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to 10
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2 to 2 1/2
AER
Corliss
2 to 2 1/2
2 1/2 to
1 to 3 1/2
Buntlet
2 to 3
to 8
NEW
NA
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2 to
\$25.00
\$3.00 p
plants,
1-yr. p
1 1/2 in.
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Felix C
Festiva
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Georgia
Lady A
L'Etinc
Mary B
Mikado
Mme. d
Mrs. Fr
Nippon
Reine F
Sarah I
Solange
Souvent
Talcott
Theresa
Tourang
Venus
Walter
Stron
3 to 5
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MAPLES

NORWAY, straight trees, well-headed, bare-root	Each
1 1/2 to 2-in. cal.	\$ 9.00
2 to 2 1/2-in. cal.	11.00
2 1/2 to 3-in. cal.	13.00
3 to 3 1/2-in. cal.	16.50

SUGAR, straight trees	Each
1 1/2 to 2-in. cal.	11.00
2 to 2 1/2-in. cal.	14.50

BULK'S NURSERIES

(10 W. Montauk Highway Babylon, N. Y.

SILVER MAPLES, NURSERY-GROWN

	Each
1 to 8 ft.	\$1.00
10 to 12 ft.	1.50
14 to 16 ft.	3.00
18 to 24 ft.	4.50

ASK FOR ROW-RUN QUOTATIONS!!

THE HOME NURSERY

Corlies Ingels LaFayette, Ill.
Since 1887, in Stark County.

NORWAY MAPLES

Nursery-grown. Well headed.

1 1/2 to 2 1/2-in. cal.	\$10.00
2 1/2 to 3-in. cal.	12.00
3 to 3 1/2-in. cal.	14.00

FEENEY'S NURSERY

Rustleton Pike Feasterville, Pa.

COLLECTED ACER

RUBRUM AND SACCHARUM

from whips to 4-in. caliper.

CURTIS NURSERIES, INC.

Callicoon, N. Y.

HARD MAPLE

	Per 100	Per 1000
1 to 3 ft.	\$10.00	\$90.00
4 to 6 ft.	8.00	80.00

NEWLANDS NURSERY, Lake City, Minn.

NANDINAS

NANDINAS, READY FOR POTTING	NICE PLANTS, PLENTY OF ROOTS
2 to 5 ins., 1-yr. plants, \$3.00 per 100, \$25.00 per 1000; 7 to 10 ins., 2-yr. plants, \$5.00 per 100, \$70.00 per 1000; 3-yr. to 5-yr. plants, bare-root, \$1.00 to \$2.00 each.	
PUREPOY HOTEL NURSERY	
1 million Nandinas	
Talladega, Ala.	

PACHYSANDRAS

PACHYSANDRA TERMINALIS	Per 100	Per 1000
1-yr. plants	\$ 5.00	\$42.50
2 1/2-in. pot-grown plants	10.50	95.00
HANSEN BROS. NURSERIES, INC.		
1568 Montgomery Ave. Narberth, Pa.		
Pachysandras, strong plants, grown in soil frames with light shade. First-class stock, \$5.00 per 100, \$50.00 per 1000; \$47.50 per 1000 for 5000 or more, including good packing. Peekskill Nursery, Shrub Oak, N. Y.		

PACHYSANDRAS

Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000.	
DUNWOODIE NURSERIES	
6 Smart Ave. Yonkers, N. Y.	

PACHYSANDRA TERMINALIS

1-yr., field-grown, \$65.00 per 1000.	
HILLCREST GREENHOUSES	
Miller Park Franklin, Pa.	

Small Ads Do Great Things in the American Nurseryman Classified Section.

PEONIES

SURPLUS PEONIES, FALL 1958	No. 1 (3-5 eyes)	No. 2 (2-3 eyes)
Baroness Schroeder	25	..
Duchess of Portland	50	..
Edulis Superba	120	80
Felix Crousse	170	..
Festiva Maxima	150	100
Francis Willard	80	..
Georgiana Shaylor	20	..
Karl Rosefield ....	..	25
Lady Alexandra Duff	140	75
L'Etincelante	60	..
Mary Brand ....	..	100
Mikado	90	30
Mme. de Verneville	140	75
Mons. Jules Elie	160	150
Mrs. Frank Beech	60	40
Nippon Beauty	40	..
Reine Hortense	150	60
Samuel Hughes	70	25
Sarah Bernhardt	50	..
Solange	90	60
Souvenir L. Bigot	60	25
Talkoon	30	..
Therese	60	25
Tourangelie	90	60
Venus	250	180
Walter Faxon	30	20

Strong, healthy, cut from young block. 3 to 5-eye, 30c each; 2 to 3-eye, 25c each. Will sell the entire lot for 5c less per plant.

ACT QUICKLY

HILLENMEYER NURSERIES

Lexington, Ky.

FERN-LEAVED AND TREE PEONIES
ATHA GARDENS, WEST LIBERTY, O.

PEONIES

Adolph Rousseau, Baroness Schroeder, Duchesse de Nemours, Festiva Maxima, Sarah Bernhardt, Lady Alex. Duff, Marie Le-moine, Mons. Jules Elie, Reine Hortense. 3-yr.-old whole clumps, not divided, 6 eyes and up, \$75.00 per 100, \$700.00 per 1000; divisions, 3 to 5 eyes, \$10.00 per 100, \$350.00 per 1000.

VERKADE'S NURSERIES, WAYNE, N. J.

PHLOX

HARDY PHLOX

Ask for our new listing on field-grown garden Phlox and Phlox subulata (Creeping Phlox). If interested in 5000 or more plants, ask for our special quantity discount.

WALTERS GARDENS
R. R. 2 Zeeland, Mich.

PIERIS

ANDROMEDA (PIERIS JAPONICA)

One of the most beautiful broad-leaved Evergreens.	Per 100	Per 1000
2 to 3-in., 1-yr., T.	\$ 8.00	\$ 75.00
3 to 5-in., 1-yr., T.	14.00	120.00
6 to 8-in., 2-yr., T.	20.00	190.00

PLANE VIEW NURSERY
1355 W. Main Rd. Newport, R. I.

PRIVET

AMUR RIVER NORTH PRIVET	Per 100	Per 1000
1-yr., 9 to 18 ins., 2 canes or more, \$4.00 per 100, \$35.00 per 1000.		
Packing at cost.		
These have been cut back twice, branched excellent. Plants are the best we have ever grown.		

PAUL'S NURSERY
R. F. D. 3 Shelby, O.

Thousands of Amur River North Privet.	Per 100	Per 1000
18 to 24 ins.	\$3.00	\$25.00
2 to 3 ft.	4.00	30.00
3 to 4 ft.	5.00	40.00
Immediate shipment. Satisfaction guaranteed. Robinson Nursery Co., Greenville, Ga.		

Start Your Offer Now
in the American Nurseryman
And Watch Sales Climb

PYRACANTHAS

These fine liners are just right for cans or the field!

PYRACANTHA EARLY RED	Per 100
8 to 12 ins., potted	\$17.50
6 to 8 ins., potted	15.00
PYRACANTHA GRABER	
6 to 8 ins., potted	15.00
8 to 12 ins., potted	17.50
12 to 18 ins., bare-root	15.00
PYRACANTHA LALANDI	
6 to 8 ins., potted	15.00
8 to 12 ins., potted	17.50
12 to 18 ins., bare-root	15.00
These are all nice plants. Send us your trial order. GUARANTEED SATISFACTION!	
COTTAGE HILL NURSERY	
4000 Japonica Lane Mobile, Ala.	

PYRACANTHA COCCINEA LALANDI
3-in. peat moss pots, well-grown and ready for the field or 1-gal. containers, \$17.50 per 100, \$150.00 per 1000.

BLACKWELL NURSERIES
Semmes, Ala.

For \$4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the January 15 issue to reach us by December 26.

Forms for the February 1 issue will close January 9.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

RHODODENDRONS

FIFTY THOUSAND

OWN-ROOT

RHODODENDRONS

A wide range of hardy varieties in 1, 2 and 3-yr. plants. Come and see for yourself to compare quality and prices, or just come and talk Rhododendrons, if you prefer.

WELLS NURSERY

P. O. Box 141 Red Bank, N. J.
Phone SHadyside 1-0180

RHODODENDRONS

HYBRID RHODODENDRONS

Landscape sizes

Different colors.

PARMENTIER'S ROSES

Grady St., Bayport, L. I., N. Y.

Phone Bayport 3-081

RHODODENDRON MAXIMUM

Nursery-grown and collected. 2 to 7 ft. high. Well-shaped and symmetrical plants.

CURTIS NURSERIES, INC.

Callicoon, N. Y.

ROSEBUSHES

MINIATURE ROSES

Beautiful little darlings like miniature Hybrid Teas, seldom over 10 ins. tall. The plants we sell are own-root from 2 1/2-in. pots.

Variety	Per 10	Per 100
Juliette, large crimson	\$4.00	\$35.00
Midget (pat. 466), rose-red	4.50	40.00
Tom Thumb (pat. 169), crimson	4.50	40.00
Perla d'Alcanada, ruby-red	4.00	35.00
Peggy Grant, P.R.R., rose	4.00	35.00
Pink Joy (pat. 1378), pink, gold center	4.50	40.00
Patty Lou (pat. 1335), silvery pink	4.50	40.00
Pixie (pat. 408), tiny white	4.50	40.00
White Baby Star, white	4.00	35.00
Snowflake, white	4.00	35.00
Presumida, like Tailsman	4.00	35.00
Jackie, gold and cream	4.50	40.00
Baby Gold Star, gold	5.00	45.00
SPRING HILL NURSERIES CO.		
Dept. AN-12 Tipp City, O.		

ROSEBUSHES

Big, thrifty plants, guaranteed to please your most critical customers. Priced to meet competition. Shipped when you need them.

Standard and patent.

Bare-root and prepackaged.

A wide assortment to choose from.

Write, phone or wire for price list, or better still come see for yourself.

MARTIN'S ROSE NURSERY

P. O. Box 155 Phone UL 9-2191 Arp, Tex.

ROSEBUSHES

2-YR. PLANTS

Grown, graded and packed to perfection. 246 varieties and 12 different types to choose from.

WRITE TODAY FOR PRICES AND YOUR REQUIREMENTS NOW!

ROSEMOOT NURSERIES

D. L. Thompson, Owner

Dept. AN Tyler, Tex.

ROSES

Disatisfied with your Rose source?

Losing customers?

Ready to throw in the towel?

Cheer up and smile.

It'll be worth your while

To write for our list today.

No order too large or too small.

We personally take care of them all.

NEW LONDON ROSES

"The Rose Nursery"

P. O. Box 876 Overton, Tex.

ROSES

The BEST of the old,

the NEWEST of the new.

A. A. R. S. WINNERS! STARFIRE and IVORY FASHION. Naturally matured, carefully harvested and generously graded. Catalogs now available. Buy the best. "BUY KLYN'S."

GERARD K. KLYN, INC., MENTOR, O.
Wholesale Rose Growers and Nurserymen
IN THE HEART OF FAMOUS LAKE CO.

ROSES

Our own field-grown Rosebushes for early winter. Standard var. No. 1, 50c. Patented var. available at fixed prices. Budded on seedlings with a fine root system, ideal for potting or home plantings.

DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

ARP ROSES

Gardeners who know and love Roses prefer superior ARP ROSES. Machine-packed in foil, or bare-root for landscape, storage or containers. All-America Rose Selections, 127 great varieties. Catalog and price list. Use letterhead, please.

ARP NURSERY CO., Box 3338-A, Tyler, Tex.

Roses, finest quality plants, reasonable. 112 varieties, standard and patented. Write. Tate Nursery, R. 3, Tyler, Tex.

ROSEBUSHES—Continued

FIELD-GROWN ROSEBUSHES
FINEST QUALITY.
Hybrid Teas, floribundas,
polyanthas and climbers.
Price and variety list on request.
WELLS BROS. NURSERY
Box 625 Lindale, Tex.
ROSEBUSHES
Hybrid Teas, climbers, polyanthas and
floribundas. Packaged or bare-root. Best
quality in years. Price free on request.
LINDALE NURSERY
Box 141 Lindale, Smith Co., Tex.
Phone 18F2-W.

ROSE STOCK

MULTIFLORA ROSE
Top quality plants for living fences and
conservation plantings.

Root-crown caliper	Approximate height	Per 1000
2 to 3 mm.	8 to 15 ins.	\$12.50
3 to 5 mm.	12 to 18 ins.	17.50
3 to 8 mm.	12 to 24 ins.	22.50
6 to 12 mm.	18 to 36 ins.	38.50

UNDERSTOCK. Straight shanked seed-
lings grown especially for understock. Nema-
tode free. Expertly graded to suit the most
particular.

4 to 6 mm. \$27.50 per 1000
2 to 4 mm. 17.50 per 1000
The above prices are F.O.B. Griggsville,
Ill. nursery. All tops cut back to 10 ins. at
shipping unless otherwise requested. Our
storage facilities are the best. ORDER NOW
for delivery this winter or spring. 10 per
cent discount in lots of 10,000 or over; special
quotations on larger quantities. For less than
1000 add 30 per cent. Packing at cost.

FARM LANDSCAPE CO.
Route 3 Urbana, Ill.

MULTIFLORA ROSE

Special, selected, thorny multiflora for
budding. Tops are cut back to approximately
14 ins.

Caliper	Per 1000
6 to 8 mm.	\$35.00
4 to 6 mm.	27.50
3 to 4 mm.	17.50
2 to 3 mm.	12.50

DANEGGER'S HI-WAY NURSERY, INC.
Box 334 Milford, Del.

SEEDS

TREE AND SHRUB SEED

Balsam Fir, Fraser Fir, Douglas Fir, con-
color Fir, domestic White Spruce, Norway
Spruce, Red Spruce, Engelmann Spruce,
Scotch Pine, White Pine, Red Pine, Austrian
Pine, Jack Pine, Hickory nuts, Walnuts, But-
ternut, Chinese Chestnuts, Pin Oak, Privet,
Chokeberry, Schwedler Maple, Hackberries,
Rhododendrons, wild Apple.

Colorado concolor Fir available in limited
supply. Douglas Fir from E. Washington,
Prior mountains, Montana, Shuswap lake,
Canada.

FORESTRY ASSOCIATES

P. O. Box 1069 Allentown, Pa.
Phone HEMlock 4-5708

Ginkgo biloba (Saliaburba adiantifolia)
(Maidenhair Tree). A fine ornamental shade
tree said to be the oldest tree known to
civilization. New crop seeds, cleaned and
ready to plant, \$1.00 per lb., F.O.B. Order
quickly.

Birmingham Nurseries, Birmingham, Ala.

TREE PEONY SEEDS

Freshly harvested from our selected
Japanese type plants.

\$7.00 per lb., postpaid.

TOICHI DOMOTO
26521 Whitman St. Hayward, Calif.

MAGNOLIA KOBUS
Domestic seed.

High germination.

\$5.00 per lb.

HESS' NURSERIES

P. O. Box 128 Wayne, N. J.

Write for Evergreen, Tree and Shrub seed
list. Also write for list Formant containers,
from small to large tub size.

Pine Mountain Wholesale Nurseries, Iron
Mountain, Mich.

SEEDS, CLEANED AND FLOATED

Juniperus virginiana, Platt River, Neb. \$3.50
Juniperus scopulorum, S. D. or Colo. ... 3.50
FORESTRY SEED SERVICE, CUBA, KAN.

Ginkgo biloba seed, home-grown.

Please see complete list on page 59.

Templeton, Phytotektor, Winchester, Tenn.

SHRUBS AND TREES

CONTAINER-GROWN STOCK
See our display ad on page 35.
BLACKWELL NURSERIES
Semmes, Ala.

ROOTED CUTTINGS, 1-YR., BEDDED

	Per 100	Per 1000
Buxus sempervirens, 4 to 6 ins.	\$10.00	\$ 90.00
Ilex bullata, 4 to 6 ins.	10.00	90.00
Juniper, Andorra, 4 to 8 ins.	12.00	100.00
Pyracantha lalandi, 4 to 6 ins.	10.00	90.00
Chamaecyparis aquarosa veitchi, 4 to 6 ins.	12.00	100.00
Chamaecyparis plaifera aurea, 4 to 6 ins.	12.00	100.00
Chamaecyparis luteascens, 4 to 6 ins.	10.00	90.00
Juniperus hetzi, 4 to 6 ins.	12.00	100.00
Juniperus pfitzeriana, 4 to 6 ins.	12.00	100.00
Juniperus stricta, 4 to 6 ins.	12.00	100.00
Pachysandra, 4 to 6 ins.	4.00	35.00
Pyracantha lalandi, potted, 4 to 6 ins.	15.00	100.00
Retinospora plumosa aurea, 6 to 8 ins.	10.00	90.00
Retinospora plumosa, 6 to 8 ins.	10.00	90.00
Taxus brevifolia, 4 to 6 ins.	10.00	100.00
Taxus brevimida, 4 to 6 ins.	12.00	100.00
Taxus capitata, tips, 6 to 8 ins.	15.00	125.00
Taxus cuspidata, 4 to 6 ins.	12.00	100.00
Taxus hatfieldi, 4 to 6 ins.	12.00	100.00
Taxus hickoi, 4 to 6 ins.	12.00	100.00
Taxus intermedia, 4 to 6 ins.	12.00	100.00
Taxus Moon's columnaris, 4 to 6 ins.	12.00	100.00
Thuja globosa, 5 to 8 ins.	12.00	100.00
Thuja pyramidalis, 4 to 6 ins.	10.00	90.00
Thuja nigra, 6 to 8 ins.	10.00	90.00

	Per 100	Per 1000
2-YR. BEDDED		
Taxus cuspidata, 4 to 6 ins.	\$25.00	\$200.00
Taxus hickoi, 4 to 6 ins.	25.00	200.00
Ilex crenata, 4 to 6 ins.	20.00	150.00
Ilex bullata, 4 to 6 ins.	20.00	150.00
Chamaecyparis cyano viridis, 4 to 6 ins.	20.00	150.00

1-YR. SEEDLINGS

Cornus florida, 4 to 6 ins. \$ 5.00 \$40.00

Taxus capitata, 4 to 6 ins. 5.00 40.00

Chinese Chestnut, 18 to 30 ins. 75.00

2-YR. SEEDLINGS

Fagus sylvatica, 8 to 12 ins. \$10.00 \$90.00

Chinese Chestnut, 18 to 30 ins. 15.00

Taxus capitata, 4 to 6 ins. 7.00 60.00

3-YR. SEEDLINGS, TRANSPLANTED

Taxus capitata, 5 to 8 ins. \$12.00 \$100.00

4-YR. SEEDLINGS, TRANSPLANTED

Picea pungens glauca, 6 to 10 ins. \$12.00 \$100.00

Taxus canadensis, 5 to 8 ins. 10.00 95.00

Taxus canadensis, 8 to 10 ins. 15.00 140.00

Taxus canadensis, 10 to 12 ins. 20.00 190.00

Thuja occidentalis, 8 to 12 ins. 12.00

Taxus capitata, 6 to 10 ins. 15.00

Pinus strobus, 8 to 10 ins. 10.00 100.00

Leucothoe catesbaei, 8 to 12 ins. 35.00

VAN DINE NURSERY
287 Berdan Ave. Preakness, N. J.

EXTRA NICE, CHOICE

TOP GRADE SEEDLINGS

Special price for delivery this season.

(All 1-yr. except noted) Each, 100 1000

AKONIA BRILLIANTISSIMA, 1 to 2 ft. \$0.08 \$0.06

COTONEASTER ACUMINATA, 12 to 18 ins.10 .07½

2-yr., T. 1 to 2 ft. (1 yr. heeled)15 ..

COT. ACUTIFOLIA, 1 to 2 ft.10 ..

COT. BULLATA, 1 to 2 ft.10 ..

COT. DIELSIANA MAJOR, 6 to 12 ins.07½ .06

1 to 2 ft.10 .07½

COT. DIVARICATA, 6 to 12 ins.07½ .06

1 to 2 ft.10 .07½

COT. HENRYANA, 8 to 12 ins.10 ..

COT. LUCIDA, 6 to 18 ins.10 ..

COT. MOUPINENSIS, 2-yr., 1 to 2 ft.15 ..

COT. SIMONSI, 6 to 12 ins.07½ .06

1 to 2 ft.10 .07½

COT. ZABELI, 1 to 2 ft.10 .07½

CRATAEGUS PHAEOPIRUM (cordata), 6 to 12 ins.07½ .06

12 to 18 ins.10 .07½

ILEX OPACA pyramidalis, seedlings, heavy15 .12½

ILEX SERRATA, 1 to 2 ft.07½ .06

1 to 2 ft., 2-yr., heeled 1 yr.10 .07½

ILEX VERTICILLATA, 1 to 2 ft.07½ .06

1 to 2 ft., 2-yr., heeled 1 yr.10 .07½

KOELREUTERIA PANICULATA, 3 to 6 ins.12½ .10

6 to 12 ins.12½ .10

LABURNUM ALPNUM, 6 to 12 ins.12½ .10

12 to 15 ins.15 .12½

SOPHORA JAPONICA, 4 to 12 ins. heavy15 .12½

VIBURNUM DILATATUM, 6 to 12 ins.06 .05

VIBURNUM DILATATUM IMPROVED, 1 to 2 ft.07½ .06

VIBURNUM SARGENTI, 6 to 12 ins., 2-yr., heeled 1 yr.07½ .06

1 to 2 ft., 2-yr., heeled 1 yr.11½ .09

VIBURNUM WRIGHTI, 6 to 12 ins.12½ .10

JOHN VERMEULEN & SON, INC.
Neahcane Station, N. J.
Finer liners since 1921

CHINESE ELMS

	Per 100	Per 1000
4 to 5 ft.	\$20.00	
5 to 6 ft.	40.00	
6 to 8 ft.	60.00	
8 to 10 ft.	90.00	

WASHAM NURSERY, SWEETWATER, Tex.

QUALITY SHRUBS AND TREES

Priced to sell quickly.

Weeping Pink-flowering Peach (tied 10's)

18 to 24 ins., 25c each.

2 to 3 ft., 35c each.

Thundercloud Plum (tied 10's)

18 to 24 ins., 20c each.

2 to 3 ft., 25c each.

Pink-flowering Dogwood (tied 10's)

12 to 18 ins., 50c each.

18 to 24 ins., 70c each.

Double Red-flowering Peach (tied 10's)

18 to 24 ins., 20c each.

2 to 3 ft., 25c each.

White-flowering Dogwood (tied 100's)

12 to 18-in. seedlings, 3c each.

18 to 24-in. seedlings, 5c each.

Mimosa (Silk Tree) (tied 100's)

18 to 24-in. seedlings, 4c each.

2 to 3-ft. seedlings, 6c each.

FLOWERING SHRUBS (tied 10's)

Spiraea thunbergi,

Philadelphus (Mock Orange),

Lonicera tatarica,

Foraythia Golden Bell,

2 to 3 ft., bare-root, 25c each.

3 to 4 ft., bare-root, 35c each.

SHADE TREE LINERS (tied 25's)

Am. Sycamore,

Silver Leaf Maple,

Tulip Poplar,

Green Ash,

*Scarlet Red Maple,

*Redbud,

American Elm,

Lombardy Poplar c.

(*Denotes native shade trees, collected from the wilds.)

2 to 3-ft. seedlings, 5c each.

3 to 4-ft. seedlings, 10c each.

3 per cent cash discount when cash comes with order.

FLOWER CITY NURSERIES

Route 3 McMinnville, Tenn.

SHADE TREE LINERS

100 1000

Acer rubrum, 2-yr. seedlings, 10 to 15 ins. \$ 5.00 \$ 45.00

*Crataegus (cordata) phaeno-

pyrum, 1-yr. seedlings, 8 to 12 ins. and up 7.50 60.00

Liquidambar styraciflua,

1-yr. seedlings, 4 to 8 ins. 9.00 75.00

2-yr. seedlings, 12 to 18 ins. 10.00 100.00

Quercus borealis, 1-yr. seedlings, 4 to 8 ins. 6.00 50.00

Quercus coccinea, 1-yr. seedlings, 6 to 8 ins. 10.00 75.00

*Quercus palustris, 1-yr. seedlings, 6 to 8 ins. 6.00 50.00

Sorbus aucuparia, 2-yr. transplants, 18 to 24 ins. up, 25.00 200.00

Items marked by asterisk (*) available in quantities of 10,000 or more. Special quotations on request.

HESS' NURSERIES

P. O. Box 128 Wayne, N. J.

FOR FALL 1958 SHIPMENT

Per 100

Cydonia japonica rubra, 3 to 3½ ft. \$ 50.00

Euonymus alatus, 30 to 36 ins. 110.00

Euonymus alatus, 24 to 30 ins. 65.00

Euonymus alatus compactus, 18 to 24 ins. 60.00

Euonymus alatus compactus, 15 to 18 ins. 50.00

Lonicera tatarica, white; 3 to 4 ft. 40.00

Prunus clatensis (own-root), 2½ to 3 ft. 65.00

Philadelphus Bouquet Blanc, 3 to 4 ft. 40.00

Philadelphus virginiana, heavily branched, 3 to 4 ft. 50.00

Viburnum lantana, 4 to 5 ft. 60.00

Niobe Willow, 6 to 8 ft. 110.00

Wis. Weeping Willow, 6 to 8 ft. 110.00

Minimum order 100 each.

FANCHER'S NURSERY, Sturtevant, Wis.

Mountain-grown, dwarf Mahonia aquifolium, 1958 seed, from selected plants under 15 ins. Rock special, 100 seeds, \$2.50; under 24 ins., \$5.00 per oz. Regular dwarf selection, most plants under 24 ins., \$3.50 per oz.; 4 ozs., \$5.00; 1 lb., \$25.00.

All seed from inspected U.S.D.A. areas.

Fields are subject to temperatures minus 35 to plus 100 degrees. Rainfall 17 ins. Ideal broad-leaved Evergreens, any climate.

Plants from dwarf mountain-grown seed. 1-yr., \$12.00 per 100; 2-yr., transplanted, \$20.00 per 100, prepaid.

Cash with order. Stock may be returned in 5 days. Old established nursery, 25 years N. E. Washington.

Mayhan Nursery, Veradale, Wash.

ORNAMENTAL TREES

Crab Apples, 40 varieties: 1-yr. trees and limited number 2-yr. transplants. Descriptive booklet available.

Thundercloud purple-leaved Plum, 1-yr. and 3-yr., 6 to 8 ft.

SURPLUS STOCK

10,000 Chinese Elm, excellent quality.	
5 to 6 ft.	\$ 50.00 per 100
6 to 8 ft.	75.00 per 100
8 to 10 ft.	100.00 per 100
10 to 12 ft.	150.00 per 100
12 to 2-in. cal.	200.00 per 100

Write for our fall and winter price list.
Shade trees and evergreens our specialty.
ROLLERS WHOLESALE NURSERY
Rogers, Ark.

NURSERY STOCK

TAXUS, RHODODENDRONS, JAPANESE MAPLE, AZALEAS, HOLLIES, MAGNOLIAS, DOGWOODS and other choice foundation planting stock in both finished and lining-out grades. Catalog upon request. Buy the best. "BUY KLYN'S."
GERARD K. KLYN, INC., MENTOR, O.
Wholesale Rose Growers and Nurserymen
IN THE HEART OF FAMOUS LAKE CO.

AVAILABLE FOR IMMEDIATE DELIVERY
100 Acer platanoides, 2 1/2 to 3-in. caliper
500 Taxus cuspidata, 3 to 4-ft. spread
5000 Austrian Pines, 4 to 20 ft.
1000 Red Oak, 2 to 8-in. caliper

SEND US YOUR WANT LIST.
Write for prices, or call.
THE BUDDIES NURSERY
P. O. Box 14 Birdsboro, Pa.
Phone Juniper 2-7257

NORWAY SPRUCE, B&B

18 to 24 ins.	\$2.00
24 to 30 ins.	2.50
30 to 36 ins.	3.00

FIN OAKS

8 to 10 ins., bare-root, \$4.50 each.	
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OAK GROVE NURSERY

2121 Phelps St.	Ashland, Ky.
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SHRUBS AND TREES

Norway Spruce, 2 to 3 ft.	\$2.25
Norway Maple, 8 ft.	3.25
Azalea Hino, 24 ins.	2.50
Shade trees, 10 ft.	2.75

BILL WENTZELL, ELMER, N. J.

MORAINA LOCUST LINERS (Pat. No. 836).
We are a licensed grower. Have a good supply of branched liners in lots of 10 to 100 each. 5 to 6 ft., \$2.75; 6 to 7 ft., \$3.35; 7 to 8 ft., \$4.50. Also have budded trees of some select strains of Thornless Honey Locust, at 50 per cent of above prices.

HILLENMEYER NURSERIES
Box 386 Lexington, Ky.

LOMBARDY POPLAR

2-yr., heavy branched.	
4 to 5 ft.	40c each
5 to 6 ft.	50c each
6 to 8 ft.	60c each

PAUL'S NURSERY

R. F. D. 3 Shelby, O.

BERBERIS ATROPURPUREA NANA
RED PIGMY
6 to 9-in. spread, B&B, \$60.00 per 100.
Bare-root, \$50.00 per 100.

Hardy Rhododendron hybrids, many varieties, cutting-grown from liners up to 24 to 36 ins.
WEST OREGON NURSERY
1550 N. W. Saltzman Rd. Portland 10, Ore.

PLATANUS ACERIFOLIA (ORIENTAL)
Each 100 1000
1 to 3 ft. \$3.50 \$3.25
3 to 4 ft. 35 .30
4 to 6 ft., whips 1.50 1.25
6 to 8 ft., whips 2.00 1.75

BULK'S NURSERIES
410 W. Montauk Highway, Babylon, N. Y.

CUTTING WOOD, TAXUS AND ILEX.
Strong unrooted cuttings of Taxus, andersonii, brownii, cuspidata and hicksii, \$20.00 per 1000. Ilex, covea and rotundifolia, \$15.00 per 1000. Cash, please.

Packing at cost.
CHARLES J. KOHANKI
1000 W. Jackson St. Painesville, O.

FLOWERING CRAB BUDS (PER 100)
Each, 2 to 3 ft. 3-4 ft. 4-5 ft. 5-6 ft.
Almey, \$0.50 \$0.75 \$1.00 \$1.10
Bleyle, Hops,35 .50 .65 .80
Swathmore,35 .50 .65 .80

CHOCOLA NURSERY
Winchester, Tenn.

Cherry Laurel liners, Prunus caroliniana and Prunus laurocerasus schipkaensis, sabelliana, macrophyllum and officinalis.
Please see complete list on page 59.
Templeton, Phytotektor, Winchester, Tenn.

ROOTED CUTTINGS 100 1000
Philadelphus aureus \$10.00 \$ 90.00
Lithrum Mordena Pink, 2000

1-yr., No. 1 12.00 100.00
NEWLAND'S NURSERY, Lake City, Minn.

SHRUBS AND TREES
See our Classified ad in this issue under
LINING-OUT STOCK.
T. G. OWEN & SON, INC.
Columbus, Miss.

Watch Your Results From
American Nurseryman Classified Ads.

TAXUS

TAXUS, FINER LINERS
DEDUCT 10 PER CENT FOR FALL DELIVERY

BACCATA REPANDENS
Strong, healthy, hard to beat 100 1000

3-yr., TT, 6 to 12 ins., bed \$0.75 \$0.70
CUSPIDATA, spreading.
2-yr., T, 6 to 12 ins., bed45 .40
3-yr., TT, 10 to 15 ins., field85 .75

CAPITATA, upright, from
Jap. seed, heavy
3-yr., TT, 6 to 12 ins., bed45 .40
4-yr., TT, 6 to 12 ins., bed60 .55
4-yr., TT, 12 to 15 ins., bed70 .65
4-yr., TT, 15 to 18 ins., bed80 .75
5-yr., TTT, 12 to 15 ins., field85 .80
6-yr., TTT, 12 to 15 ins., field 1.10 1.00
6-yr., TTT, 15 to 18 ins., field 1.25 1.15

CUSPIDATA DENSIFORMIS,
rooted cuttings, 4 to 6 ins.12 .11
2-yr., T, 6 to 12 ins., bed50 .45

CUSP. INTERMEDIA,
rooted cuttings, 1-yr., 6 to 8 ins.11 .10
2-yr., T, 8 to 12 ins., bed45 .40

CUSP. MICROPHYLLA
4-yr., TT, 10 to 15 ins., field85 .75

CUSP. VERMEULENI,
rooted cuttings, 1-yr., 6 ins.11 .10
2-yr., 6 to 9 ins., bed40 .35
3-yr., T, 6 to 12 ins., bed45 .40
3-yr., TT, 6 to 12 ins., field60 .55
4-yr., TT, 9 to 12 ins., field85 .75

MEDIA BROWNII,
2-yr., T, 8 to 12 ins., bed50 .45

MEDIA COMPACTA,
4-yr., TT, 10 to 15 ins., field85 .75

MEDIA HATFIELDI,
rooted cuttings, 1-yr., 4 to 6 ins.09 .08
rooted cuttings, 1-yr., 8 ins.11 .10
rooted cuttings, 1-yr., 8 ins.14 .13
2-yr., T, 6 to 12 ins., bed45 .40
3-yr., TT, 6 to 12 ins., field60 .55
4-yr., TT, 9 to 12 ins., field75 .65

MEDIA HATFIELDI, spreading,
rooted cuttings, 1-yr., T, 6 to 10 ins.20 .17 1/2

MEDIA HICKSI,
2-yr., T, 9 to 15 ins., bed50 .45

MEDIA KELSEYI,
1-yr., T, 6 to 9 ins., bed20 .17 1/2
2-yr., T, 6 to 12 ins., bed45 .40
4-yr., TT, 9 to 12 ins., field85 .75

MEDIA VERTICALIS, tall, narrow,
hardy (ask for catalog)
1-yr., 2 1/2-in. pots35 .32 1/2
2-yr., T, 6 to 10 ins., bed60 .55
3-yr., T, 9 to 12 ins., field75 .

JOHN VERMEULEN & SON, INC.
Neshanic Station, N. J.
Finer liners since 1921

EXTRA!

TAXUS DEMAND GROWING.

Why not meet this demand by sending us
your cuttings to be rooted.

Details and prices upon request.

RICHARDSON NURSERIES, INC.
53947 Fir Rd., R. 1 Granger, Ind.

TAXUS CAPITATA
The seed was imported from Japan. The plants are strong selected 4-yr. transplants. Two years ago when the stock was transplanted, only selected plants were picked to grow on.

(EACH) (EACH)
4-yr., T, 10 to 15 ins., heavy \$0.45 \$0.40
C. HOOGENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

CUTTING WOOD

Taxus hicksii, stems 10 to 15 ins., in lots of 5000, 2c each. No shipping. Sold only at the nursery. Cash, please.

DUNLAP NURSERY
Oakwood Manor Cromwell, Conn.
Phone Diamond 6-4972 after 6:30 P.M.

TAXUS LINERS AT A BARGAIN
10,000 3-yr.-old liners, heavy.
Cuspidata spreading.
\$35.00 per 100, \$300.00 per 1000.

Ship beetle zone, outside beetle zone.
Free packing and samples on request.
LARRY'S NURSERIES, INC.
960 Reservior Ave. Cranston 10, R. I.

STRONG UNROOTED CUTTINGS Per 1000
Taxus capitata (strong leaders) \$35.00
Taxus cuspidata 20.00
Taxus hicksii 30.00

BULK'S NURSERIES
610 W. Montauk Highway Babylon, N. Y.

VIBURNUMS

VIBURNUM CARLESI COMPACTA (NEW).
This is a compact form of Viburnum carlesi with dark green leaves and buds up very readily.

Per 100 Per 1000
(EACH) (EACH)
Strong 2-yr. grafts \$1.50 \$1.25
C. HOOGENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

Viburnum liners: Viburnums, carlesi, chenaultii, juddii, rhytidophyllum and tomentosum pilcatum.
Please see complete list on page 59.
Templeton, Phytotektor, Winchester, Tenn.

VIBURNUM ODORATISSIMUM

Clean and healthy
2 1/2-in. pots \$15.00 per 100.
COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

VINES

LARGE-FLOWERING CLEMATIS VINES
1-yr. container grown, 75c each.
Comtesse de Bouchaud, pink
Ernest Markham, red
Ville de Lyon, red
Fall delivery. Cash with order.

FOUR STAR NURSERY

8215 238th St., S. W.
Edmonds, Wash.

MISCELLANEOUS

MAKE ME AN OFFER! MUST SELL!!
Sansevierias, Nephthytis, Philodendrons, Pothos, climbing Fig, Coleus, Ivies, Aluminum Plants, Anthericums, Impatiens sultani, field Evergreens, Ligustrum, Rhoeos and others. Large lots, 500 to 1000 in each. Best bring your truck and load. All well-grown and nice. Must have space.

W. G. ESCOTT
1122 N. 44th St. Fort Smith, Ark.

Start Your Offer Now
in the American Nurseryman
And Watch Sales Climb

WANTED

WANTED
Northern-grown Sweet Gum liners.

HENDRIE'S NURSERY
Box 526 Greenlawn, N. Y.

Wanted—Nurserymen looking for business. Increase sales at the Iowa Nurserymen's Convention, January 2, 9 and 10, 1959. Hotel Kirkwood, Des Moines. Program advertising and booth space available very reasonable. Write, R. W. Ferguson, Pres., Robinson & Parnham, 6015 Grand Ave. W., Des Moines, Iowa.

WANTED—TAXUS
Unrooted cuttings of Taxus densiformis, wardii, brownii, Adams columnaris. Now to March 15.

MIAMI NURSERY CO.
Route 2 Tipp City, O.

SUPPLIES

BURLAP

NEW BURLAP
In bolts or rolls of 100 to 125 yds.
HEAVYWEIGHT BURLAP

Width	In bolts	On rolls
36 ins.	22 1/2c	24 1/2c per yd.
40 ins.	23 1/2c	25 1/2c per yd.
45 ins.	25 1/2c	27 1/2c per yd.
48 ins.	27 1/2c	29 1/2c per yd.
54 ins.	31c	33c per yd.
60 ins.	34 1/2c	36 1/2c per yd.
72 ins.	40 1/2c	42 1/2c per yd.

BURLAP EROSION CLOTH
40 ins. 19c 21c per yd.
57 ins. 23c 25c per yd.

GREEN BURLAP
36 ins. 37 1/2c per yd.
All prices are net F.O.B. New York.

Minimum order 1 bolt or 1 roll. Orders of 3 or more freight prepaid east of the Mississippi. When ordering specify rolls or bolts.

LEWIS INTERNATIONAL CO.
(Sundries Dept.)
666 Clinton Ave. Newark 8, N. J.

HOLLAND BURLAP squares, for all needs.
VIKING CLOTH, a film embedded Burlap, in squares, used instead of tarpaulin, and in 50-yard rolls, 5 ft. wide, \$38.00.

HALF MOON CO., Box 27A, Plainfield, N. J.

CANE STAKES

LIGHTNING SERVICE
ON
FRESHLY IMPORTED
JAPANESE BAMBOO CANE STAKES
from
NEW YORK, CHICAGO, PORTLAND, ORE.
Write for our competitive prices
and generous quantity discounts.

McHUTCHISON & CO.
695 Grand Ave. Ridgefield, N. J.
2505 S. E. 11th Ave. Portland 2, Ore.

CANE STAKES—Continued

BAMBOO CANE STAKES
For greenhouse and nursery purposes.
All types and sizes.
Write for prices and quantity discounts.
ALICE HENDERSON, INC.
1313 W. Randolph St. Chicago 7, Ill.

OUTDOOR BAMBOO STAKES
All sizes for immediate delivery.
Ask for our Nursery Supply List.
HALF MOON CO., Box 27A, Plainfield, N. J.

CHRISTMAS TREES

10,000 Scotch Pine, Cattaraugus County.
N. Y., Christmas trees. First cutting. Write.
J. D. Perry, R. 2, Mayville, N. Y.

Classified Ads Offer Maximum
Results at Minimum Cost.

COLOR TAGS

COLOR PICTURE TAGS
Quick shipment. Reasonably priced.
Shrubs, shade, fruits, vines, flowering trees,
etc. Write for price list.
GLOBE NURSERIES
Box 249 McMinnville, Tenn.

Quick—Convenient—Cheap!
Selling through the Classified Ads
of the American Nurseryman.

CONTAINERS

KNOCKED-DOWN CANS
(Pat. No. 2433087)
Shipped and stored flat.
New tin sheet metal cans, now available
in 3 sizes, to enable nurserymen and retailers
to sell roots with their stock. Grow in
tin cans that will eliminate your packaging
and replacement problems.
Write for prices and sizes.
BENSON & WEDDING
Knocked-Down Cans
16730 Sayre Ave. Tinley Park, Ill.

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads

FLATS

CYPRESS FLATS
Shipped from Williamson, N. C.
WHITE CEDAR FLATS
Shipped from Cook, Minn.

Order by No.	Price Per	Cedar Wt.	Cypress Wt.
No. 1, 14x20x2 1/2-in.	\$27.00	320	400
No. 2, 14x20x3-in.	31.50	400	500
No. 3, 12x16x2 1/2-in.	20.75	260	325
No. 4, 12x16x3-in.	24.50	275	345
No. 5, 14x16x2 1/2-in.	23.25	275	345
No. 6, 14x16x3-in.	27.50	290	365
No. 7, 15x22x2 1/2-in.	30.75	380	475
No. 8, 15x22x3-in.	35.50	425	535
No. 9, 11 1/4x22x2 1/2-in.	25.00	320	400
No. 10, 11 1/4x22x3-in.	29.00	400	500
No. 11, 14x16x5-in.	32.75	450	560
No. 12, 5x11x5-in.	16.75	160	200
No. 13, 5x16x5-in.	19.00	215	270
Plant boxes, 5x8 1/2x2 1/2-in.	5.50	45	60

Skeleton flats to carry **TEKPAKS** and similar growing containers. (Write us for price list.)
All other sizes quoted on request.
Above prices apply to both Cypress and Cedar.
5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.
The above sizes are inside measurements. Bottoms and sides are 1/2-in. thick and ends are 3/4-in. thick. All material surfaced on one side.
Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus 1/2c per end piece for the first 1000 ends; 1/4c per end thereafter.
Write inquiries and orders for White Cedar flats to Cook, Minn., and for Cypress flats to Williamson, N. C.
Shipped knocked-down in units of 25. F.O.B. mills. All shipments by truck unless otherwise specified. Attach check. Order by number, especially if by telegram.
H. C. HILL & SONS
Manufacturers of flats, boxes, wood turnings and specialties.
Phone North 6-3348, Cook, Minn.
Phone Swift 2-4127, Williamson, N. C.

REDWOOD FLATS, K.D.
Finest stock obtainable. Guaranteed all clear heart. Size 20x15x2 ins. inside measure, \$38.00 per 100.
1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bdl.
50 pcs. to bundle, 5 ft., \$4.50 per bdl.
50 pcs. to bundle, 6 ft., \$5.50 per bdl.
Ship same day. Cash with order, please.
YOHO & HOOKER, YOUNGSTOWN 2, O.

FERTILIZERS

PETERS SPECIAL
CONTAINER-GROWING FERTILIZERS
All materials listed are ideal for container-growing purposes.

SOLUBLE FERTILIZERS
21-7-7 Azalea Neutral (non-acid forming)
21-7-7 Azalea Acid (heavy acidifying action)
Both above, \$6.50 per 25-lb. bag.
\$22.00 for 4 25-lb. bags.

20-20-20 General Purpose Feed
\$7.00 per 25-lb. bag, \$24.00 for 4 25-lb. bags.

LONG-LIFE FEEDS
13-6-6 Organic Special Du Pont Uramite
Nitrogen and highest grade natural organics. The finest long-life dry feed. Unexcelled for containers.
\$7.50 per 25-lb. bag, \$28.00 for 4 25-lb. bags.
Du Pont Uramite, 35 per cent nitrogen from methyl-urea, \$12.00 per 50-lb. bag.

Also available: Chelated Iron, Chelated Trace Element Complexes, Fritted Trace Elements, etc.

FRTITTED POTASH
Contains 32 per cent K₂O, plus fritted trace elements. Will not leach away. Gives 6 to 9 months' assured supply of Potash, regardless of leaching rain or heavy watering. \$9.00 per 25-lb. bag; \$8.00 per 25-lb. bag for 4 to 39 bags.

Write for complete price list.
Freight prepaid to any state in the Union with the exception of Alaska, on all orders totaling 390 lbs. or more. West of the Mississippi, add 2c per lb. on 300 lbs. and over, prepaid shipments. F.O.B. Allentown, Pa., on all orders less than 300 lbs.

ROBERT B. PETERS CO.
323 North 15th St. Allentown, Pa.

HEATERS

LP AND NATURAL GAS UNIT HEATERS
Best for plastic houses. Quick delivery.
Prices start as low as \$167.00. Write for information on all unit heaters.

ROUGH BROS.
4229 Spring Grove Ave. Cincinnati 23, O.

LABELS

DAHLIA OR TREE LABELS
Priced per carton

3 1/2 x 5/8 ins., notched, not wired	\$3.00	3.60
3 1/2 x 5/8 ins., wired (copper)	3.95	4.90

POT LABELS

4 x 5/8 ins. (cartons 1000 each)	3.95	4.60
5 x 5/8 ins. (cartons 1000 each)	4.30	5.10
6 x 5/8 ins. (cartons 1000 each)	4.70	5.80

Priced per carton

8 x 5/8 ins. (cartons 500 each)	\$3.60	\$4.30
10 x 5/8 ins. (cartons 500 each)	4.20	5.10

GARDEN STAKES

8 x 7/8 ins. (cartons 250 each)	3.00	3.60
10 x 7/8 ins. (cartons 250 each)	3.30	3.90
12 x 1 1/4 ins. (cartons 100 each)	2.00	2.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

Catalog on request.
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PLASTIC MARKING KIT
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Write now for your free sample and full particulars on our 1959 GARDEN MARKING KIT. This kit retails for \$1.00 and contains the following: 50 vinyl plastic markers for either underground identification of bulbs, seeds, etc., or for attaching to plants, shrubs, trees and bushes. 50 pieces of copper wire for attaching these plastic markers and one waterproof, weather-resistant marking pencil. These labels are non-burning and everlasting.

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Sun-resistant black for mulching. .0015 mil.
3 ft. x 500 ft. \$ 7.70 per roll
3 ft. x 1000 ft. 15.40 per roll
Natural only.

.002 mil., all rolls 200 ft. long.
4 ft. 2 ins. x 200 ft. \$ 6.00 per roll
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Natural transparent and sun-resistant black.
.004 mil., all rolls 100 ft. long.
3 ft. x 100 ft. \$ 5.00 per roll
4 ft. x 100 ft. 7.00 per roll
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Other sizes and mil. weights available up to 40 ft.

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Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses.

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3 ft. wide by 100 ft. long \$ 6.00 per roll
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6 ft. wide by 100 ft. long 12.00 per roll
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Other sizes available up to 20 ft. wide.
Send \$1.00 for liberal sample

4 ft. x 10 ft. postpaid.
Special deal for greenhouse construction.
5 rolls to 9 rolls, 25 per cent discount.
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4 mil. in 100-ft. rolls, 36 ins. wide, \$6.18;
54 ins. wide, \$9.12; 72 ins. wide, \$20.20.

5 rolls, less 10 per cent; 10 rolls, less 20 per cent. Also wider widths available.

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CHLOROMONE
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Fresh, clean sphagnum moss, write or phone City Point 133 for our low prices on wirebound bales in truckloads or carlots.
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CYPRESS PLANT STAKES
50 pieces to bundle.
1x1-in.—3 ft., pointed \$3.00 per bundle
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1x1-in.—5 ft., pointed 4.50 per bundle
1x1-in.—6 ft., pointed 5.50 per bundle
1x1-in.—7 ft., pointed 7.00 per bundle
These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."

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STAKES, GALVANIZED HARD STEEL
GALVANIZED rec. guying WIRE,
HOSE for guy wire FADDING.
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BARTLETT "WE" COMBINATION

Handiest combination ever made. Combines heavy-duty trimmer and fast-cutting pole saw. The trimmer easily severs limbs up to 1 1/4-in. diameter and, with the pole saw, will do almost any job. Both the trimmer and saw have 30-in. head sections which fit the same octagon spruce pole. Furnished with two 6-ft. pole sections. Total weight, 8 lbs. Complete, \$35.00, delivered in U. S. A. Poles also available in 4 and 8-ft. lengths. Easily carried in small car.

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Can dig fresh for immediate shipment.

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An additional feature was the highly effective educational exhibit. Here in gallon cans and in smaller containers were several hundred specimens of shrubs and trees which give foliage or fruit color in the fall. Each was selected for its truiness to type; moreover, each was plainly labeled. The label giving not only the common and the scientific names, but also some information regarding the height of growth, type of location the plant prefers and the type of soil. All identifications were made, or at least

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New tin sheet metal cans, now available in 3 sizes, to enable nurserymen and retailers to sell roots with their stock. Grow in tin cans that will eliminate your packaging and replacement problems.

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WHITE CEDAR FLATS
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No. 4	12x16x3 1/2-in.	24.50	275	345	
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No. 6	14x16x3 1/2-in.	27.50	290	365	
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All materials listed are ideal for container-growing purposes.

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Nitrogen and highest grade natural organics. The finest long-life dry feed. Unexcelled for containers.
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8 ft. wide by 100 ft. long 20.00 per roll

Other sizes available up to 50 ft. wide.
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54 ins. wide, \$9.12; 126 ins. wide, \$20.20.

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Oregon Bulb Farms, Box 512, Gresham, Ore., offers an opportunity for a young man, age 21 to 25, to join and train as assistant to the management. For the right, bright and ambitious young man, here is a chance to learn and grow up in one of the most interesting branches of American horticulture. A college education is not necessary, but an ability to write neatly and work with figures is essential. Some experience with trucks and tractors and other power equipment would be helpful. We are highly mechanized and our young man should be interested in efficiency, in planning work schedules and in handling large crews of inexperienced labor. We realize that this is exactly the young man that every nurseryman is looking for. We offer not only more interesting work and a better salary than most, but also a real chance to become part of the top management team. Personal interviews will be arranged only after we have your letters, including a photograph and references. Immediate availability not essential.

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Two qualified landscape job superintendents. Must be capable of laying out and reading landscape designs. Must know plant material and be capable of handling men. Must have had experience in supervision. Job is located in medium-sized city in Ohio. Salary \$5,000 to \$7,000 per year plus commission. Job is open now or spring, 1959. Full year-round employment with generous vacation and hospitalization plan included. Applicants with experience in industrial and commercial landscaping as well as state highway seeding should apply by sending letter, including past experience, references and a picture which will not be returned. Please write Box 541, care of American Nurseryman.

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General manager to run medium-sized garden center in midwestern city. Must have thorough background and knowledge of all plant material, selling techniques and management problems. Must be capable of handling employees. Must be capable of taking over complete control of the operation. 8 months' job. Salary \$5,000 to \$7,000 per year plus commission based on a percentage of the profit. Applicants please send a letter, including past experience, references and a picture which will not be returned. Position will be open March 1, 1959. Please write Box 540, care of American Nurseryman.

HELP WANTED

Working foreman for nursery. Must have experience in planting and growing. Location near Smyrna, Del., nursery on Delaware Bay. Write: VOGEL'S NURSERY Box 588 Wilmington, Del.

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Large grower of coniferous and broad-leaved evergreens needs experienced propagator to take complete charge of propagation department. Please state qualifications and give references in reply. Position open because of death of Mr. Peter Zorg.

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Graduate landscape architect or experienced design man for large retail nursery, growing a complete line of choice nursery stock. In replying, please state marital status, age and experience.

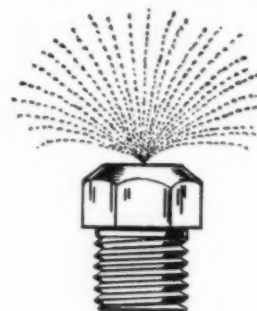
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checked by the famous systematic botanist of the California Academy of Science, Dr. Elizabeth McClintock.

General chairman of the festival was Mrs. F. W. K. Hamilton, Los Gatos. She was assisted by a large group of willing workers. Much of the plant material was furnished by the Phelan estate, the Saratoga Horticultural Foundation and the cities of San Jose and Palo Alto, as well as by local interested individuals. Containers for all kinds of exhibits were furnished by the American Can Co.; Oriental screens and similar materials such as fabrics and tables came from the Golden Buddha in Los Gatos. Much of the decorative table and party arrangements were made by members of classes in floral arrangement coached by Mrs. Eleanor Van Rensselaer, author of the popular book, "Decorating with Pods and Cones." Maunsell Van Rensselaer is director of the Saratoga Horticultural Foundation. W. B. B.

SOUVENIR BOXWOODS

[Concluded from page 14]

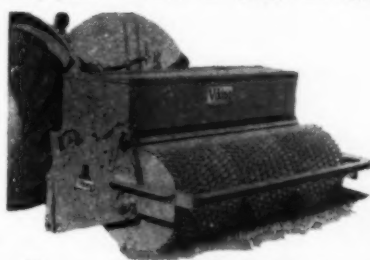
moist until they root, and they are then moved into open fields, where the roots can harden. It takes approximately three years for a rooted cutting to reach marketing size. The small bushes are then lifted from the soil with a cylindrical digger and transferred to the aluminum pots. Mr. Jamieson says the boxwood requires little care and can be transplanted at any time of the year, except when it is making new growth. He recommends a prior planting of clover, to add nitrogen to the soil.

The boxwood bushes are an integral part of beautiful and historical Berkeley, which has come to be one of the foremost tourist attractions in the area. It was built in 1726 by Benjamin Harrison and inherited by his son, Col. Benjamin Harrison, member of the Continental Congress, signer of the Declaration of Independence and 3-time governor of Virginia. The next generation was to see Colonel Harrison's son, William Henry—popularly known as "Old Tippecanoe"—become President of the United States, and Berkeley was destined to produce yet another President in Benjamin, the grandson of William Henry.

ESTABLISHED near St. Helena, Calif., by Albert Albattine, is Napa county's 49th nursery.

CONSTRUCTION has begun for the new business home of the Goleta Garden Nursery, Goleta, Calif., at 5718 Hollister avenue.

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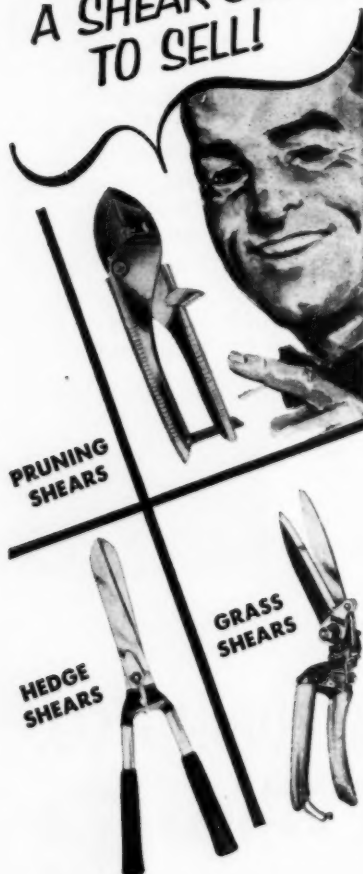
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OBITUARY

George Droeger

George Droeger, 83, founder of the former Droeger Greenhouse & Nursery, Seymour, Wis., died in his home at Seymour, November 7.

Mr. Droeger established his nursery in 1937 with the purchase of five acres, after having been in the hardware business at Seymour and Green Bay for several years. Subsequently, both a daughter and a son entered the business and greenhouses were built. In 1956, with the death of his son, Mr. Droeger sold the business to Frank Kailhofer and his son, Robert.

Mr. Droeger was a former member of the Seymour city council and the board of education. He is survived by his daughter, four grandchildren and three sisters.

Merritt R. Pharo

Merritt R. Pharo, owner and operator of Pharo Gardens, Bethlehem, Pa., died November 2 in his home at Bethlehem. He was 66.

As the first landscape nurseryman at Bethlehem, Mr. Pharo was in business there for 40 years. In addition, he did landscape work for the Trexler game preserve, Allentown, and for many years designed holiday decorations for the Central Moravian church, Bethlehem, of which he was an active member. He also was active in civic affairs and was a member of the Bethlehem Penn State Club.

He is survived by two sons, John Paul and Dale L., both of Bethlehem; a sister, and four grandchildren.

Lawrence Hourigan

Lawrence Hourigan, retired owner and operator of Hourigan Nursery, Davenport, Ia., passed away October 22 in Mercy hospital, Davenport, after a 3-month illness. He was 84 years old and was a native of Davenport.

Dr. Harold Mowry

Dr. Harold Mowry, 64, director of the University of Florida agricultural experiment station from 1943 to 1950 and more recently consulting director to the minister of agriculture of Costa Rica and chief of the university's cooperative mission to that country, died November 12 at the University of Florida Teaching hospital, Gainesville. He suffered a heart attack as he completed seven years of advisory work in Costa Rica

AT LAST! EFFECTIVE CONTROL FOR Geranium Black Leg



IT IS now possible for geranium growers to control bacterial and fusarium rot on roots and stems of geranium cuttings and plants. GEROX, a combination antibiotic and chemical fungicide, was developed by plant pathologists after years of research.

In extensive experiments (published in *Plant Disease Reporter*, 6/15/57), 80 per cent of the treated plants and cuttings recovered and remained in healthy condition, whereas 80 per cent of the untreated plants died.

In a large-scale test, 2000 plants were used. All of these showed some degree of bacterial and/or fusarium rot on roots and stems—from light infection to complete destruction of the roots. After three weekly treatments a high percentage of the plants produced new healthy roots and showed a marked improvement in growth and appearance. Results in this test confirm those of the original experiment.

GEROX is used as a soil drench and is available as follows:

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last January and was hospitalized at Washington, D. C., before returning to Gainesville in March.

Early in his career Dr. Mowry played an important role in eradicating the Mediterranean fruit fly, and his early research with tung oil trees gave impetus to the development of that industry in Florida and the south. He was author or co-author of 13 bulletins published by the agricultural experiment station and of numerous articles for scientific and popular journals.

R. G. Barrett

R. G. Barrett, Barrett's Home Gardens, Sierra Madre, Calif., died in his home November 8 at the age of 57. He was a member of the California Association of Nurserymen and long active in Boy Scout work. Survivors include his widow, Mrs. Verna M. Barrett; a son, Leonard G. Barrett, and two grandchildren.

GRAFTED DOGWOOD

Pacific dogwood, native of the west coast, may soon be adapted for breeding and display on the east coast, home of flowering dogwood.

The western species has bracts one-third to one-half larger and more abundant than in eastern dogwood. The flowers are also slightly oblong and sometimes faintly tinged with pink. So, growing both species would provide variety in showiness, form and color.

To move eastward, the western dogwood must adjust its tops to eastern temperature, light humidity and wind conditions, and its roots to eastern soil structure, aeration, water content, nutrient supply, temperature and other related factors. To meet this need, U. S. D. A. scientists are evaluating vegetative propagation.

Geneticist W. F. Kosar, the National Arboretum, Washington, D. C., grafted 10 scions of Pacific dogwood from the University of Pennsylvania's Morris Arboretum onto 3-year-old seedlings of eastern dogwood.

Preliminary results show this practice removed many of the limitations. The first season's growth of two grafts (from the bud union to the terminal bud) averaged 43 inches. New growth survived temperatures as low as 1 degree Fahrenheit.

IMPROVEMENTS at Flickinger's Nursery, Sagamore, Pa., include a new greenhouse and the addition of acreage, on which a new building has been constructed, three miles from the main nursery.

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Designing the Modern Home Grounds

By Raymond Otto

For various reasons, the majority of professional landscape architects are not interested in doing small property design these days; so it remains for the nurseryman, the landscape contractor or landscape service company to do the job. And, as a matter of fact, homeowners would rather deal with one person who can get the whole job done—design, construction and planting—than with a different individual for each operation. One competent person with a good organization should be able to do all these things and at the same time produce a better finished product at less cost to the owner.

If I am sure of one thing after trying to teach design for some years, however, it is that one cannot become a good designer simply by hearing someone talk about it. Only through constant study, observation, analysis, experimentation and execution can one develop a feeling for design—producing an organic solution that satisfies the conditions of each particular problem. Most certainly, therefore, no one can hope to become an accomplished designer on the strength of this article. At best I can present only a few basic concepts (as I see them) which might help.

Design Is Organization

Reduced to simplest terms, design is order or organization. It might be defined as the orderly arrangement of component parts. Whether the design is for a small property, an automobile or a kitchen gadget, it is still made up of lines, forms and spaces, and probably of textures, values and colors as well. It is the combination, arrangement and use of these elements of design that determines whether or not the design is sound. I firmly believe that a study of abstract composition is helpful in the use of these elements, although translating what one learns this way to applied landscape design is admittedly often difficult. One certainly develops a feeling for aesthetic qualities through this process, however.

There are many approaches to design, but I think one of the more

logical is to analyze the factors which affect the individual problem. The physical factors of the site must first be considered. What is the orientation of the lot and the location and type of house? How about topography—is the lot flat or sloping? The design should work with nature—not fight it—as far as possible. Are there existing trees or other growth which should be saved? Are there views which should be featured? If not, the design should develop interior vistas within the lot.

Sociological factors relate to the owner and his family and to their way of life or mode of living. Are they quiet and retiring, or ostentatious extroverts? (These are extreme examples, of course.) If the former, the design should be dignified with a high degree of privacy; if the latter, probably a show place is wanted. Are they well-to-do, or did they spend all their money on the house?

Finally, one must determine what functions the design is to provide—the uses to which the property will be put. These may be primarily utili-

tarian (maybe the owner wants a large vegetable garden), or the function may be primarily aesthetic (a colorful display of flowering plants). One can propose a balanced combination of uses, including some recreation, outdoor living and entertaining. Obviously, the uses are largely outgrowths of the interests and activities of the family. I might add here that people are becoming more interested in outdoor living, even in caring for their grounds, for there lies a relief for many of today's tensions.

Basic Types

To point out the differences between traditional and contemporary design, I shall first cite the basic concepts of each. You all know that the traditional, of course, can be either formal (classical) or informal to the point of naturalistic. Formal design is based on exact balance about an axis. That is, everything on one side is repeated on the other, giving a "mirror image." This type of design has been useful in the past,

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Address, "Designing the Modern Home Grounds," given by Prof. Raymond Otto, head of the department of landscape architecture, University of Massachusetts, Amherst, at the short course for nurserymen held early this year at the Waltham field station, Waltham, Mass.

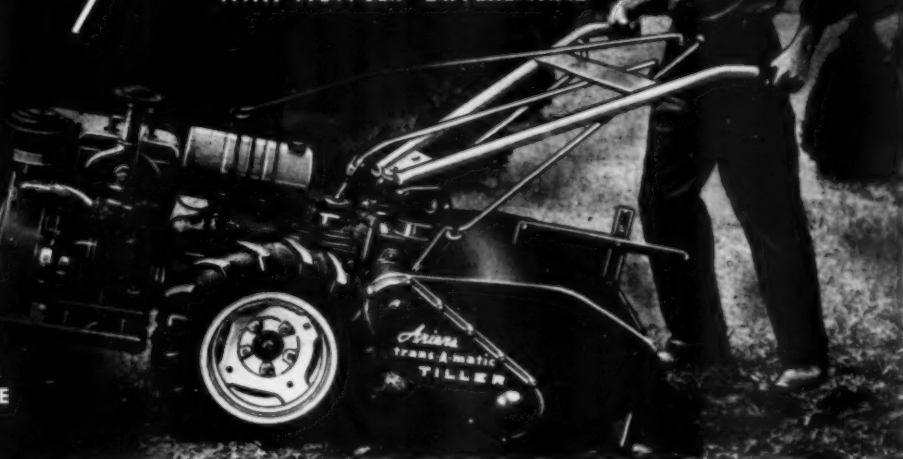
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especially with a symmetrical, classical house design like Georgian or Regency or even balanced colonial.

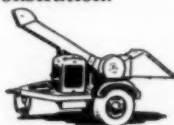
Naturalistic design, a heritage of the English landscape school of Repton, was fine for parks and the outlying areas of large estates, which are now a thing of the past. In my opinion, however, it is hardly applicable to the average suburban lot with its straight property lines and angled corners and with a geometric house dominating the composition. To me the naturalistic can become invertebrate, difficult to relate to and integrate with the house. It often becomes overgrown on the small lot.

What, then, is the answer? If designers should forget the mechanical, sterile axis and the blind subservience to nature, what should they do? I think they should start with space, one of the elements of design, after analyzing the three sets of factors mentioned earlier. The architect encloses space for human use; the landscape architect organizes exterior space. This can be divided into all sorts of forms (another element of design). Areas can be made small and tight or shaped more openly, depending on their purposes. Garrett Eckbo states, in "Landscape for Living," "We can watch space flow across the terrace into the house

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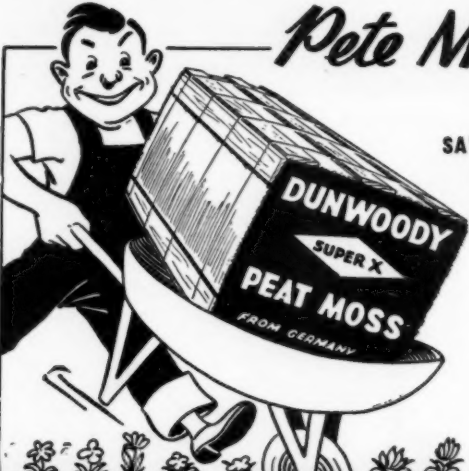
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Indoor-Outdoor Aims

With today's house it is more important than ever that the landscape design obtain a maximum of indoor-outdoor relationship. For this purpose, it is most desirable that the architect and landscape architect work together from the beginning, before the house is started. The design of the grounds should be consistent with the style of the house, whatever that may be. If possible, it should utilize contemporary materials and aim for contemporary effects. No designer would create a classical garden for a Frank Lloyd Wright house, and, if he did, the architect would be outraged.

If design is difficult to discuss, good contemporary design is doubly so because it is so difficult to do well. Some of its characteristics, as given in Garrett Eckbo's book, "Landscape for Living," are the following:

1. Space relationships, i.e., pleasant forms, good proportions, satisfactory transition and integration of spaces and areas with each other.

2. Free arrangement of geometric forms in variety. Other things being equal, I believe the basic layout should be defined primarily by straight lines and angles, relieved occasionally by curves and flowing outlines. Why? Because of the geometry of the lot outline and of the house, which is still the focal point of the composition. This is simply consistency of character.

3. The use of materials, some old, some new. Materials define and express the spaces created for outdoor living. I am thinking of stone, concrete, wood, glass, plastics, pipe, stainless steel, etc. The way they are used and new methods of construction also are important.

4. Emphasis on horizontal lines. Most new houses are low and often rambling; so, generally speaking, the property design should reflect the architecture with low horizontal lines relieved by an occasional vertical judiciously placed for contrast and relief.

5. Restrained use of plant materials, with emphasis on selected specimen plants. Long, informal borders and great masses of shrubs in general are out. Instead, contemporary design employs ground covers, hedges or hedgerows of plants that do not

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Complete elimination of re-burlapping
more than makes up for the slight extra cost.

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COLLECT: ELizabeth 4-3115
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Send sample and price list on No-Rot.

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grow too fast or too large, small
flowering trees as specimens and oc-
casional shade trees carefully select-
ed. Plant materials are frequently
eliminated in favor of architectural
materials (fences instead of hedges,
overhead sheet plastics instead of
vines on trellises, concrete instead of
turf, etc.). Though this may seem
like sacrilege to nurserymen, they
should prepare themselves for the
trend, for it is common practice on
the west coast right now.

Plan Major Areas First

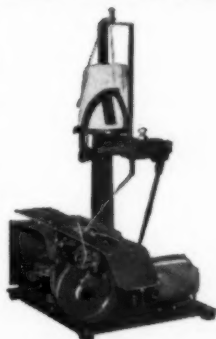
Having no rules, but at least with
some definite characteristics in mind,
the designer can tackle the small
property as he always has—by estab-
lishing the three major areas first.
This is accomplished in part by ex-
tending the lines of the house and
relating certain portions of the lot
to the proper areas of the house. The
method may sound somewhat me-
chanical, but variations of different
houses, physical characteristics of the
lot and the ingenuity and imagina-
tion of the designer overcome this
difficulty.

The approach area is, of course,
between the house and the street
and contains the entrance walk, the
drive and lawns with restrained
plantings sufficient to create a satis-
factory setting for the house from

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the street. Contemporary architecture often turns its back on the public way, which can be noisy, dusty and unpleasant; so practical considerations tend to outweigh the aesthetic in designing the public area. Normally, the walk and drive should be straight and unemphasized. Curves, if necessary, should have an obvious reason, as an existing tree, or recognizing the bulk of traffic from one direction. Emphasis, simple and straightforward, should be placed at the front door arrival area, usually a focal point for this part of the house.

The work or service area is meant for deliveries as well as the utilitarian activities of the domestic establishment. Accordingly, it needs easy access from the street, especially the drive, and usually relates to the service portions of the house. It might contain an area for drying clothes and a work yard for hobbies, for repotting plants, painting outdoor furniture, etc. If there are small children, the service area would include a play yard. The owner might want vegetables; the wife may want a border to provide cut flowers for the house. So the work and service portion of the grounds could flow from the garage arrival past the service end of the house and include some of the rear yard.

Living Area

The remainder of the rear yard is the living or private area and is related to the living portions of the house. Here are developed the terrace, sun traps, lawns and garden areas for outdoor living, eating, entertaining and relaxing. Here is attempted maximum privacy, and as Eckbo says, every visit must be an adventure and an experience. It is to this area that many of the social activities of the house are transferred; so it must be both functional and delightful. One cannot be told how to design this area; every resource of imagination and ingenuity must be called upon and the problem solved on the basis of the three sets of factors mentioned earlier.

Climate Control

Climate control attempts primarily to make development more livable and comfortable throughout the year. A well-known pamphlet was prepared several years ago by the American Association of Nurserymen, and other material on this subject has been published; so it is not necessary to enlarge on it. A few factors to consider might profitably be offered, however.

1. Orientation. The southern exposure is not the hottest in the summer; it is the western exposure that

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Roots screened out

You get the
best part — the Peat Flakes!

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24x24 ins.	33¢
28x28 ins.	43¢
30x30 ins.	54¢
32x32 ins.	54¢
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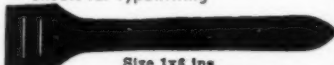
Please compare these prices with what you are currently paying. All covers are made from vacuum-cleaned, bright burlap bags, free of holes and perfectly uniform. Samples will be gladly mailed upon request.

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- 1 Lasts a full year or more in the sales frame.
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- 6 Is neat and uniform in appearance, an asset to the sales area.
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- 10 . . . and sufficiently low priced so that it may be given away with the plant.



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Size	Height	Top Diam.	Nearest Clay Pot	No. in Carton	WEIGHT Per 1000	F.O.B. KANSAS CITY	
No. 0	5 1/4 ins.	5 ins.	6 ins.	200	210 lbs.	Per 100 \$4.25	Cloverset Pot Prices F.O.B. Kansas City.
No. 1	6 1/4 ins.	6 ins.	7 ins.	100	340 lbs.	5.25	
No. 2	9 1/4 ins.	7 ins.	8 ins.	100	535 lbs.	5.75	
No. 3	9 ins.	8 ins.	9 ins.	100	600 lbs.	6.25	
No. 4	13 ins.	12 ins.	25	Per 100 133 lbs.	25 pots, \$7.70; 50 pots, \$14.60; 75, \$21.75; 100, \$26.15; 1000, \$231.00	

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can be the worst. The hottest part of the day is from about 2 to 5 p. m. usually. That is why architects recommend large glass areas to the south or southeast, giving more sun in the spring and fall and especially during the winter months when the vertical sun angle is quite low. If outdoor living areas are to the south of the house, the season of use can be extended considerably.

2. Shade. Architectural devices, trees and other forms of protection should be introduced where they will cut off the sun when and where it is not wanted. The perfect answer here is seldom possible, but as examples, the architect uses wide roof overhangs to reduce unpleasant sky glare and to cut off the hot summer sun which is high overhead and allows the sun to come in during the winter when it is low to the south. The landscape architect plants a large deciduous tree to the southwest of the house to provide shade during the hottest part of a summer day, but allows the sun to come through bare branches when it is wanted. He shades paved areas which otherwise could reflect the sun's heat far into the evening.

3. Wind. A design could introduce barriers to cut off cold winter winds and at the same time funnel the

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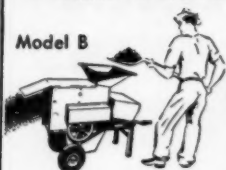
cooling, fair-weather breezes of the summer into the areas where they are wanted. The designer must be familiar with the prevailing winds of the locality in which he is working. Sun traps are created with enclosures for early and late season use and drain off cold air which will flow downhill with grading, thereby creating a cool spot at the bottom with a barrier and a pool.

The advantages are obvious: Greater comfort and livability for

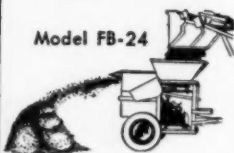
more of the year. The important point is that the devices used are elements of design that would be used anyway: Fences, hedges, trees, lawns, pools, grading and pergolas. But these should be used to modify the climate around the residence and should be consistent with good design based on organization, integration, proportion and balance, as well as the other points I have made. Another factor to consider is maintenance. Because of the great

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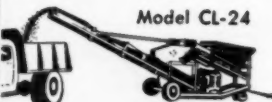
Model B



Model FB-24



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THAT WON'T FALL APART!

... because they have stapled bottoms, made of long-lasting roofing material.

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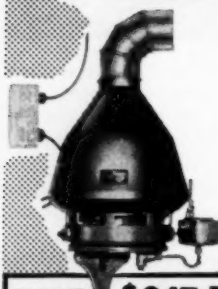
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amount of activity in these times, maintenance must be kept to a minimum. Good design and construction, proper selection of plant materials and attention to details often make the initial outlay larger, but in the long run will save the owner money and labor.

Another consideration for those who will be doing most of the small property design is how clients can be given the sort of job they should have. It cannot be done through "free" plans (so-called), a rather common practice. Good design takes time and a sensitive designer; both cost money. In a recent survey, the National Landscape Nurserymen's Association concluded that about only 10 per cent of their membership was charging an equitable fee for plans, but conceded that this was the best practice. The designer in an organization should be given every opportunity to improve himself through continual practice and experimentation, study and even travel. If he also must perform many additional duties, not many original and inspired design ideas can be expected from him.

My conclusion is a question: Will the challenge of providing good contemporary design for the small homeowner be met? Contemporary design is here to stay. It is up to small property designers to show the way, especially for domestic developments. If this cannot be done, then the plans of the professionals should be carried out. Willingness to cooperate with them should continue to be in evidence.

SMALL MAPLES

[Continued from page 13]

green leaves. These fruits, losing their red color and turning tan to brown, often remain on the plant through most of the winter. The wings parallel one another and almost meet.

Excessive pruning causes much sprout growth from the main stem. This is not objectionable if the tree is part of a screen or hedge, but when it is being used as a specimen plant, heavy pruning should be avoided.

The leaves of *Acer ginnala* and *Acer tataricum* are supposedly similar, but a marked difference between them can be seen in illustrations E and F. The Amur maple has a narrower and more pronounced center lobe, with the basal lobes also being more evident. Illustration G shows some variation among a cluster of Tatarian maple leaves, but still the leaves do not closely resemble those of *Acer ginnala*.

Acer ginnala and *Acer tataricum*

the Better Soil Notebook

with STAN DAVIES

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A real old time Nurseryman stuck the needle into one of our favorite bubbles. Blew it higher than a Redstone Rocket going into orbit.

He dropped in at our Booth at the Eastern Nurseryman's Convention back in January. Arrived with a grin and a greeting that was harder to take than a cancelled order.

"Wore one of those things out," he said, pointing to the Royer Shredder we had on display.

Now, no salesman can take a challenge like that laying down. I jumped to the bait.

"What was the trouble?" I asked. "Too small a machine for the amount of material?"

"No, son. Fact is, that Royer always was able to keep ahead of our operator."

"Don't tell me our welded angle-iron and steel plate frame gave you trouble!"

"Nope. Wasn't that. Hadn't anything to do with the heavy gauge steel plate hopper bolted to the frame, either."

"Have a flat?"

He shot me a disgusted look. "Son, mine didn't have those nice pneumatic tires."

He took hold of the tow bar and moved our light, compact display model. "You

folks sure designed portability into these machines, though. Makes them real easy to move to and around the work site."

"And they stay that way," I added. "These large roller bearings are packed with grease and sealed to keep out dirt. Heavy duty, too—not little wagon wheels."

The only thing left was the belt assembly, so I asked him the obvious.

"I wore out a belt or two in my time. But it sure takes a lot of runnin' to do it. Sure wish they made shoe soles out of that tough, resilient composition belting."

"And it sure is smart to mount those tempered alloy steel teeth the way you do. Really shreds the material, and that design prevents material from impaling, too."

"You know, I never had a tooth break. That spring-loaded retarding sweep prevents a lot of headaches."

"But," I asked, "why did you have to replace belts?"

"Son, nothing lasts forever. Bought that Royer back in '24. Really didn't wear out, though. It's just so doggone old it deserves to be retired."

He started to leave, shot another glance at the display model, and added...

"Have your local distributor come by and I'll give him my order for a new Royer. It's the best machine I ever bought."

Well that was the end of one of our favorite balloons. We always thought that Royers lasted forever. Now we say they *practically never wear out*.

Oh yes, we gave him a copy of our new Bulletin S-57. In eight pages we show and describe our complete line. There's one for every size operation, every need. Drop me a line and I'll rush one off to you today.

After you've looked them over, contact your local distributor (we'll tell you his name) and get a demonstration. We don't want you to buy a pig-in-a-poke. Compare, but not just original costs. Get yourself one of these Royers—the Shredders that *practically never wear out*.

ROYER

are about the same in ultimate size and form, with the Amur maple becoming possibly a little taller when trained on a single stem. Both maples tend to produce fruits as abundantly as the Acer tataricum branch shown in illustration H. The fruits are similar in that the wings of both species are parallel and red during the summer. The Tatarian maple is a bit less hardy, but will withstand temperatures down to 15 or 20 degrees below zero.

Acer tataricum, from southeastern Europe and western Asia, was introduced into cultivation soon after the middle of the 18th century, but has never gained the popularity of its close relative, Acer ginnala. One reason is that its fall color is not so consistently brilliant. The autumn color of Tatarian maple may be red or yellow, but its stronger tendency is to be yellow and not a particularly good or clear yellow.

Tataricum Varieties

Acer tataricum rubrum is a variety which produces a red fall color, but it is not generally distinguished as such in the trade. The publication of the American Association of Botanical Gardens and Arboreta on maples mentions a variety, slendzinske, and a form, oblongifolium. The variety can be found in New

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Size 16' x 97'6"

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York Botanical Garden, New York, and Dominion Arboretum, Ottawa, Canada, and the form in the Morton Arboretum, Lisle, Ill.

The uses of such small maples are many. Where a multiple-stemmed specimen is needed to give body, color and a bit of the unusual, the Amur or Tatarian maples may supply the answer. The hedge maple need not be overlooked, either. Many large buildings would appear to better advantage if treated with such a plant rather than with eight to 10 shrubs. If one can use a small tree, or trees, in the landscape, he can usually produce a better and more lasting result than with several shrubs. The maintenance is lower, too.

In conclusion, the maple trees de-

scribed in the November 15 issue, Acer buergerianum, Acer truncatum and Acer griseum, as well as those in this issue, warrant much wider use in landscape work.

Merry Christmas and best wishes for the new year!

NAME of Mount Vernon Landscaping Service, Mount Vernon, Wash., will be changed to Norah's Alpine Gardens upon completion of a new store. The address remains the same, Box 429, route 5.

PURCHASED recently by Oscar H. Will & Co., Bismarck, N. D., was Bud's Nursery & Garden Supply, Dickinson, N. D., from Bud Mace-mon, who will continue to manage the business.



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BALED SHINGLE TOW (CEDAR SHAVINGS)

WM. A. JOHNSTON

1522 N. W. Thurman St. PORTLAND 9, ORE.

RETAILERS' REPORTS

[Continued from page 10]

per cent of our total sales. We are striving to get it up to 50 per cent, which in our judgment would make it more profitable and satisfactory.

"We are using mechanical equipment as much as possible to save labor and time. Garden store sales are holding up well, though they were a little slow at first. Food and other chain stores are entering our field, and we believe they will have to be reckoned with. However, we are hoping for good Christmas business at our stores."

Tennessee Report Optimistic

Returning buyer confidence is reported by Richard H. Jones, Jones Ornamental Nursery, Nashville, Tenn., and other favorable comments follow:

"Weather conditions were very different from spring, 1958, and fall, 1957. Though a little dry for good digging and transplanting costs were increased, the situation was better than not being able to work at all.

"Sales were good and are continuing so. Buyers are more cautious, and our biggest problem is estimating. Individual contracts are smaller, due to more conservative buying. Volume has been ahead of last year's, but more work has been required and costs have increased to such an extent that diligence will be needed to keep it profitable.

"Generally speaking, confidence in the economy has returned, with fear of recession lessening all the time. If prospects and the weather continue so favorably, this should be an excellent year."

Ohio Gain Is 5 Per Cent

"Our business in the Cincinnati area has been good," writes William A. Natorp, president, William A. Natorp Co., Cincinnati, O. He adds: "Weather has been ideal. We expect to keep busy until Christmas.

"We do approximately 55 per cent of our business the first six months of the year and 45 per cent the last six months. Up to now our business is 5 per cent ahead of last year's. Industrial planting, such as for factories and office buildings, is increasing every year. Every new factory in this area is planted. Our leading newspaper, the Cincinnati Enquirer, has a contest each year for the best planted commercial building. This plan has stimulated all types of planting, including some extensive projects.

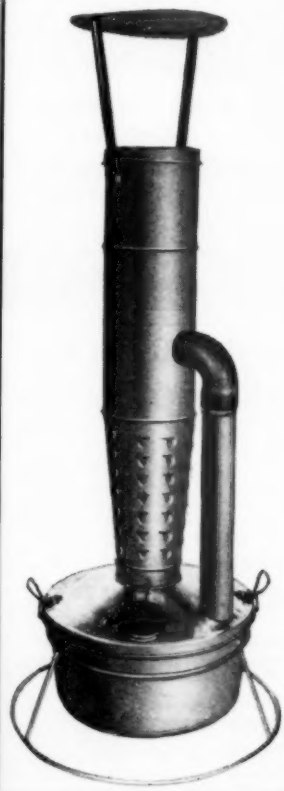
"Due to the excessive amount of rain during the summer months, it has been costly to keep our nurs-

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Ohio

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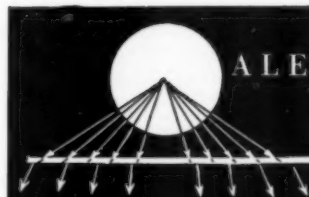
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ery free of weeds. However, all nursery stock is growing satisfactorily.

"Our Christmas business consisting of sales of cut and live trees and tree ornaments has been increasing each year. It is helpful in keeping our men busy during December.

"Our bookings for spring in the wholesale line are satisfactory. We expect a complete sellout of Natorp taxus."

Ohio Record Shows Small Change

John D. Siebenthaler, president, the Siebenthaler Co., Dayton, O., shows near balance with 1957 sales in the following report:

"As of November 1, our over-all business is off 4 per cent from last year's. Our landscape business is off about 12 per cent; our nursery wholesale business is up 22 per cent and the garden store business is off about 6 per cent as compared to the year 1957 up to November 1.

"Fall business is important with us. The largest business volume is in May; following that in order come April, October, November and March. Not knowing what our November business will be for this year, because the month is not over yet, we cannot give an accurate report on our fall business. However, with the good weather we have had so far through the month we are con-

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siderably ahead of last year and should make up the 4 per cent deficit in the year. But with four inches of snow on the ground this morning (November 28) and more coming down, there will be little prospect of accomplishing anything more in the way of landscaping or retail store business this month.

"Early this fall we initiated a plan of working with the general contractors who build a group of houses in the \$18,000 to \$40,000 price range, getting their permission to prepare

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a landscape plan for each house, to submit along with the sale of the property, with the suggestion that the buyer contact our landscape department for a price and execution of the plan. These jobs have come in quite satisfactorily and the plan is much better than for the general contractor to landscape the property for \$50 to \$75, which is ridiculously inadequate so far as the homeowner is concerned, as well as the nurseryman. Our plans usually develop in

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- Roots grow right through pot wall.
- Faster rooting—Better established plants.
- No cleaning and storage of pots.

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Quantity	Per 1000
3,000 to 18,000.....	(3,000, \$21.75) ..\$7.25
21,000 to 72,000.....	6.75
75,000 up	6.25

Sold in cases of 3,000. Minimum order 3,000. 35 lbs. per case.

3-Inch

Quantity	Per 1000
1,500 to 9,000.....	(1,500, \$19.88) ..\$13.25
10,500 to 49,000.....	12.25
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PRICES PREPAID on 150 lbs. or more.
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initial jobs of from \$350 to \$2,000 and we have been quite successful in obtaining FHA loans for the property owner to pay for the landscape work."

Improved Pattern in Illinois

A continuing improvement has marked the fall trade, states Eugene A. de St. Aubin, Eugene A. de St. Aubin & Bro., Inc., Addison, Ill., writing:

"Fall, 1958, from the standpoint of weather will be recorded as the most favorable in many years. While it has been somewhat lacking in moisture, the fine weather suitable for outdoor work has continued almost uninterruptedly from the beginning of September up to this present day (November 25).

"The season opened, however, in an atmosphere of hesitancy, even stagnation. Customers were selective, but with no 'penchant' for the more expensive items. Trained and experienced personnel were in good stead, with the order taker relegated almost to oblivion. It was a time also when a well-balanced inventory and careful stock records paid dividends.

"In October, however, the 'climate' changed and business took an entirely different turn. Each day seemed to be an improvement over the preceding one until, at present, due in a measure to the continued good weather, the fall of 1958 will make a very favorable showing.

"Evergreens and ornamentals have been in demand. Trees, especially in the smaller calipers, sold readily, and deciduous balled items have continued to show a marked increase. This over-all improvement seemed to mark the general pattern of the economy.

"We are very optimistic for spring, as we believe there is a pent-up demand for stock which will make itself felt then and be the forerunner of good business throughout 1959."

Minnesota Fall "Profitable"

"Our fall business is very important," writes Harold S. Reid, Holm & Olson, Inc., St. Paul, Minn., adding, "It is not so big as spring business, but more profitable. We had a good year, ending July 31. In this new year, the dollar volume is about the same as last year's at this time.

"Our local (bread and butter) trade continues each year with slight increases, so far profitable. Our commercial and industrial business is increasing each year, not too profitably, due to contractors' and nurserymen's selling their products wholesale.

"The nurserymen and florists in



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1 gal.\$8.50
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3 1/4 to 10 1/2 gallons
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the midwest are selling themselves down the river. Department stores, filling stations, chain stores, garden stores, roadside stands and contractors are absorbing nursery and florists' products at their prices and selling them at a seasonable markup."

Favorable Missouri Weather

"Our fall business is small in comparison with our spring business, being about 10 to 15 per cent of the year's total," writes Royer K. Wilkerson, Wilkerson Nursery, Columbia, Mo. His fall report continues as follows:

"We sell mostly evergreens and B&B shade trees in the fall and do not dig our deciduous shrubs and trees until the leaves fall. I believe our fall business will exceed last year's, because we started digging evergreens earlier than normal this year as a result of more moisture and cooler weather.

"Our fall weather has been almost perfect, and we are trying to get our evergreen orders dug so that we can concentrate on getting our deciduous stock under cover."

Iowa Holding Own

Landscape sales topped salesyard demands, writes Harold J. Parnham,

<p>These ornamental metal products can be your biggest</p> <p>PROFIT-MAKERS</p> <p>They're natural sellers with your other lines . . . go hand in hand with your sales of seeds, lawn mowers, garden supplies—and your markup is up to 100%! Mail coupon today for catalog and wholesale prices!</p>			
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Virgin Fertility—With
VITALOAM
LABORATORIES OF SOIL
& PLANT RESEARCH, INC.
LANCASTER, OHIO

Robinson & Parnham, Des Moines, Ia., in the following fall survey:

"So far we are holding our own with last year's figures as far as overall business is concerned. Our merchandise sales are up, our nursery stock sales are down, our labor sales are up and our professional sales are about the same.

"The dry weather in the past two months hurt business. With only .07 inches of rain, planters find ground too hard to dig themselves, so we have had an increase in landscape sales where we plant the material.

"Fall bulb sales were the best in many years. We still have not developed much business in potted woody plants during summer, although we had a larger display than we ever had before.

"Salesyard totals are down about 2 per cent, but this has been offset by the increase in landscape sales.

"Another interesting figure which showed up as of October 31, is that total overhead costs (total costs of doing business) are down 5 per cent. Most of this savings has been in labor costs. We are watching our operations more closely to offset increases in expenses."

Nebraska Sales Down Slightly

Vernon Marshall, Marshall Nurseries, Arlington, Neb., notes a small decrease caused by weather and local conditions, but sees an active spring ahead. His comments follow:

"We have had a good fall season. Sales are somewhat less than a year ago at this time, but we do not do too much volume in the fall in this area. Our fall business is confined mostly to landscape plantings, which we do with our own crews. We do little shipping of material to customers in our territory who do their own planting, as we feel that fall plantings need special attention in order to be successful.

"Our fall volume is probably down a little from a year ago, which we believe is due to a strike of carpenters last summer, that prevented completion of many new homes on schedule. Also, we have had an extremely dry fall, which tended to slow up sales, because people felt that plantings would not do well under the conditions. However, this business will all come to us in the spring, we are sure; so it looks like an extremely busy spring season.

"November 17 we had our first rain since about the middle of September, and it was certainly welcome as much of the wheat, especially in western Nebraska, was beginning to deteriorate because of the drought, and, of course, wheat is one



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of the important crops in our state. Farm crops in this immediate area were the best ever this year, so that everybody is feeling good over conditions, and we anticipate a good year."

Kansas Season Favorable

A favorable growing season was the bright spot in the 1958 season in Kansas, writes Ralph B. Ricklefs, Kansas Landscape & Nursery Co., Salina, Kan. He details the situation as follows:

"Compared to our spring business, our fall business is relatively unimportant. This year, our total summer and fall sales to date amount to only about 25 per cent of our entire volume, thus leaving our spring season to account for practically the remaining 75 per cent.

"This fall, our mail-order and drive-in trade were slightly ahead of 1957, but our landscape sales were off approximately 30 per cent. This was mainly due to the fact that one of our landscape salesmen had to leave in January for his hitch with the military, and thus his services were not available this fall. My second son, John, just graduated in landscape design from Kansas State.

"The brightest spot in the present picture is that we just completed one of the best growing seasons we

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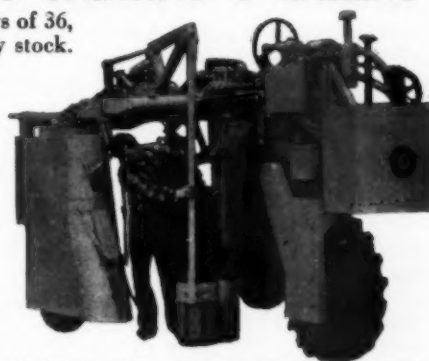
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Guide for landscaping of public, industrial and commercial grounds. Includes: Growing and maintenance of turf. Trees, shrubs and perennials. Insect and disease control. Weeds. Soil erosion. Tools and machinery. Maintenance of roads, parking and picnic areas. 438 p. 2nd ed.

LANDSCAPE SKETCHING, by Arthur Black (\$5.75).

Fits needs of self-raised landscape nurseryman who wishes to prepare sketches for client. Shows fundamental pencil strokes and how to apply them to component parts of the landscape. 109 pages, illus. with 57 drawings.

GROUND COVER PLANTS, by Dr. Donald Wyman (\$4.75).

Describes more than 200 kinds of woody plants and herbaceous perennials which can be employed to cover the soil, in sun and shade. Chapters: Hardiness, Planting, General Maintenance, Winter Protection, Pruning, Propagation, Propagating Equipment, Lists of Suitable Plants. 175 pages.

SHRUBS AND TREES FOR THE SMALL PLACE, by P. J. Van Melle (\$3.00).

Hardy deciduous materials for the home grounds. More than 400 items of border and other shrubs, specimen materials and a limited number of shade trees for the small place. Includes pruning, hardiness, planting and score charts. 246 pages.

ART OF HOME LANDSCAPE, by Garrett Eckbo (\$5.95)

How to plan, build and plant to avoid wasting and spoiling outdoor space. Chapters include home planning, case studies, foundations, surfacing, enclosure, shelter, enrichment, plants and planting. Profusely illustrated with photos, drawings and sketches. 278 pages.

GARDENS ARE FOR PEOPLE, by Thomas D. Church (\$10.00).

Experienced landscape architect. Information and suggestions of value for the home beautifier and the professional landscape man. 243 pages, profusely illustrated.

LAWN AND LANDSCAPING HANDBOOK, by Thomas H. Everett (\$2.00).

The grasses to use, renovating lawns, mulching, compost making, correct mowing, foundation planting, watering and fertilizing, controlling weeds, diseases and pests. Step-by-step diagrams and photos. 144 pages illus.

HOW TO BEAUTIFY AND IMPROVE YOUR HOME GROUND, by Henry B. Aul (\$3.50).

Provides plans, sketches, arrangements, terrace ideas, work and play centers, vegetable, flower, shrub and tree plantings. Modern ideas. 155 plans, drawings and illustrations. 320 pages.

65 PRACTICAL GARDEN PLANS, by John Elliott (\$1.00).

Plans for suburban, country and city homes, including crowded areas in large cities, back yards, penthouses, outdoor living and dining rooms, etc. A wide range of plans applicable to many conditions and situations. 48 pages, paper-bound.

These books and others on horticultural subjects are available at the publishers' price through the

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have experienced since we have been in business. Usually, here in Kansas, July and August are dry and we have to resort to irrigation. Last spring and summer we received an abundance of moisture, and irrigation was not necessary. We experienced no excessive summer heat, but still we had enough sunshine along with the moisture for the maximum growth. At times we had heavy rains, but no hail, damaging winds or flooding. Nearly all of September and all of October were dry and mild, and this had a tendency to harden the lush growth of summer. Our frosts this fall came gradually, with no severe damaging temperature. Since we produce the bulk of the stock we sell, this large and presently available crop of nursery products is important to us.

North Dakota Year Good

R. J. Layton, Northwest Nursery Co., Valley City, N. D., reports a satisfactory 1958 trade as follows:

"The nursery business has been good for the past year. Our fall deliveries were somewhat below the previous year's, due mostly to the fact that we transferred some of our evergreen deliveries to spring.

"We had an excellent growing year, although the latter part of the season was dry. Crop conditions in general were good.

"Housing construction continues at a rapid pace. We expect big increases in our deliveries for 1959. Our sales are already 15 per cent over the previous year's."

Washington Fall Slow

Fall business is usually slower than spring trade for the Puget Sound Nursery & Gift Shop, Tacoma, Wash.. L. H. McGuire explains in the following report:

"I believe that normally we do twice the volume of plant business during March, April and May that we do in September, October and November. April is the busiest month. Since we do landscape work as well as direct retail selling, I should say that the direct retail sales are more than double in the spring. It is our landscape work that keeps the fall totals up. Our gift shop has its best volume in the late fall before Christmas and thus helps to equalize income. We do not combine the sales of the nursery and gift shop because the gift shop has a separate personnel.

"Our area, like most others, has both the container operator, who features low-priced items, and those who feature landscape-size materials. I believe there is more



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competition and a more segmented market among the low-cost, high-volume operators than among the rest of us. I firmly believe that one must choose his own market and sell that group, because I do not feel that one can attract both types of buyers. Attractive surroundings and clean material are a must with those wishing to sell the better material; extensive advertising and leaders are necessary to attract the bargain buyers. I am sure that this difference in marketing will become more accentuated as time goes on."

Seattle Consensus

A report on the fall trade at Seattle, Wash., requested of the Taylor Nurseries, Seattle, is received as a consensus of members of the Seattle chapter of the Washington State Nurserymen's Association, through Marguerite P. Tindall, secretary, as follows:

"The autumn business was slow. Spring is the biggest season locally. Retail business for 1958 was about the same as in other years. The demand for canned stock was larger.

"Landscape business is considerably better. Homeowners are looking for professional help; they like the more finished look about their homes. There is not nearly so much of the do-it-yourself type of work."

OPENED recently by Mr. and Mrs. Carl Barham was the Whitmore Nursery & Floral Shop, 2353 Whitmore avenue, Ceres, Calif.

ROBERT C. MYERS, landscape designer and nurseryman, is serving his second year as secretary of the Rotary Club of Walla Walla, Wash.

STARTED last summer by Jan and Peter Groot, El Modeno Gardens is growing ferns and tropicals for the wholesale trade at P. O. Box 212, El Modeno, Calif.

ADDRESS of the Elk Grove Nursery, Arlington Heights, Ill., has been changed to 2316 Landmeier road, Elk Grove Village, Ill., according to John Mecklenburg, proprietor.

CHRIS CHRISTENSEN, Chris Christensen Landscaping Service, Coatesville, Pa., died October 19. The business is being discontinued by his widow, Mrs. Bodil Christensen.

DONALD L. REILLY has sold Reilly's Nursery, Elmira, N. Y., and joined the staff of the Ra-Pid-Gro Corp., Dansville, N. Y. The new owners of the nursery, John and Ilse Pouliot, will continue the business as Reilly's Nursery.

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Cotoneaster divaricata seedlings.

	100	1000
COTONEASTER DIVARICATA		
6 to 12 ins., S.	8.50	\$75.00
12 to 18 ins., S.	10.00	85.00
MAHONIA AQUIFOLIUM		
1-yr., S., selected ...	6.50	50.00
EUROPEAN MOUNTAIN ASH		
6 to 12 ins., S.	7.50	65.00
12 to 18 ins., S.	10.00	85.00
WASHINGTON HAWTHORN		
6 to 9 ins., S.	7.50	65.00
9 to 12 ins., S.	10.00	85.00
PRUNUS TOMENTOSA		
6 to 12 ins., S.	7.50	65.00
12 to 18 ins., S.	10.00	85.00
RHODOTYPOS SCANDENS		
6 to 12 ins., S.	7.50	65.00
SYRINGA VULGARIS		
6 to 12 ins., 2-yr., S. .	7.50	65.00
SYRINGA VILLOSA		
6 to 12 ins., 2-yr., S. .	7.50	65.00
VIBURNUM CASSINOIDES		
6 to 12 ins., S.	7.50	65.00
VIBURNUM DENTATUM		
6 to 12 ins., S.	7.50	65.00
VIBURNUM LENTAGO		
6 to 12 ins., S.	7.50	65.00
VIBURNUM LANTANA		
6 to 12 ins., 2-yr., S. .	10.00	85.00
12 to 18 ins., 2-yr., S. .	15.00	125.00
VIBURNUM OPULUS		
6 to 12 ins., S.	10.00	85.00
VIBURNUM SIEBOLDI		
6 to 12 ins., S.	10.00	85.00
VIBURNUM TOMENTOSUM		
6 to 12 ins., S.	10.00	85.00
PHOTINIA VILLOSA		
6 to 12 ins., 2-yr., S. .	7.50	65.00
12 to 18 ins., 2-yr., S. .	10.00	85.00
RED BARBERRY		
6 to 9 ins., S.	45.00	

NEWPORT NURSERY CO.
Newport, Mich.

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HORTICULTURAL CENTER

Miss Doris Duke, president of Duke Gardens Foundation, Inc., Somerville, N. J., and Charles D. Webster, president of the Horticultural Society of New York, announce the signing of an agreement between the two groups which provides for development of part of the 2,300-acre Duke farms area as a center for horticultural exhibits and research.

The area involved consists of 60 acres of natural woods, gardens and greenhouses located within the Duke farms property on the banks of the Raritan river, approximately two miles from the Somerville Circle and 35 miles from New York city. Lands and buildings will be devoted to research and to agricultural, botanical, and horticultural exhibits, open to the public.

Completion of facilities and arranging for memberships will require about a year. At the end of that period the grounds will be open to the public.

Development of the gardens will be under the direction of an advisory committee to the foundation, composed of Miss Doris Duke; Mrs. W. Redmond Cross, Bernardsville, N. J.; Henry F. du Pont, Winterthur, Del.; Dr. Harold E. Anthony, Englewood, N. J., and Charles D. Webster, Islip, N. Y. The four latter-named committee members are also directors of the Horticultural Society of New York.



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WARMEST REGARDS

DURING THIS HOLIDAY SEASON AND THROUGHOUT 1959

For the past 12 months we have been telling you on this page about the stock and services offered by Lake's Shenandoah Nurseries.

At this time of year, however, we like to set business aside and extend to you heartfelt greetings of the season.

Among the greatest pleasures in business are the people with whom we come in contact. Too often, perhaps, this relationship is largely on a business basis.

So it adds to our enjoyment of the holiday season to extend to you all our hearty good wishes for a most joyous holiday season, and for a wonderful year in 1959.

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